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A TECHNICAL REPORT PREPARED FOR THE NAVY RECRUITING COMMAND
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THE TACTICAL ALLOCATION OF QUALITY RECRUITING GOALS ACROSS REGIONS AND DISTRICTS: ITS USE IN IDENTIFYING "EXCEPTIONAL" PRODUCERS

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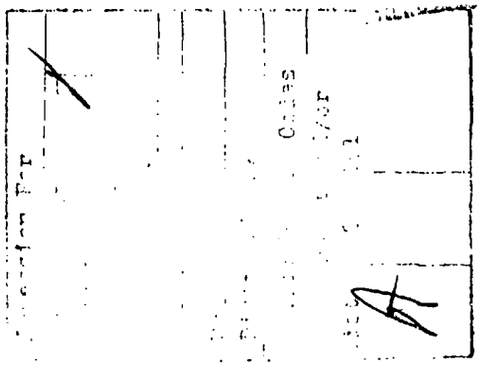
1.0 BACKGROUND

1.1 Motivation and Focus

The Naval Recruiting Command is broken into six Regions, containing some forty-three recruiting districts. Each region is administered by a Regional Commander who receives from the Naval Recruiting Headquarters a quota for enlistments of various types, as well as an allotment of recruiting resources. One of his responsibilities is to then distribute these resources and quotas to the districts under his Command. Headquarters makes the decisions as to the allotment between the six Regions, and provides advice and consulting support to the Regional Commanders to aid them in their allocations.

The focus of this report is to explain, illustrate and document a computer program which can be run at the Naval Recruiting Command Headquarters. The program represents a sound and defensible tactical tool for aiding headquarters in equitably allocating the total national quota over the six Regions. It also provides suggestions to the Regional Commanders as to how they might allocate their assigned Regional quotas over the districts in their Regions. Finally, it can be helpful in identifying those "exceptional" districts and Regions, exceptional in the sense that they appear to do either significantly better or worse than the predicted performance for the area, this is after the area's performance has been adjusted to account for their individual levels of demographics and resources.



It should be emphasized that the method to be discussed should be viewed primarily as a short run, tactical decision aid; this is in contrast to longer range, strategic planning efforts. The short run, tactical problem faced each year by Headquarters, prior to the initiation of each new Fiscal Year, can be stated as follows: i) Headquarters cannot in the short term drastically alter the mix of recruiters in the field; ii) headquarters does not have detailed knowledge of the upcoming advertising campaigns (at least as to the mix of media impacting each geographical area by month; iii) only approximate forecasts of any changes in an area's demographics (such as the local unemployment rate, the number of male high school seniors, the percent of the male, 17-21 year old population that is black, the percent of the male, 17-21 year old population that is included in a SMSA, etc.) are available for the upcoming year. Given these constraints, the first task is to allocate, at least on a percentage basis, the national, yearly enlistment quotas across the six Regions equitably. The second task is to provide guidance to the Regional Commanders as to how they might best perform their own internal allocations down to the district level.

One needs to appreciate that the above is a very different exercise than that associated with the longer term, strategic issue, of "How should recruiters, advertising expenditures, and goals be distributed over the country to maximize the cost-effectiveness of the resources?" The key difference is that in the latter strategic issue, one has the time to affect the many changes that may come out of the long

range planning analysis. This type of planning indeed has been the major thrust of this Principal Investigator's past efforts (see "A Multi-Year Budget Generation Program for Use in Navy Recruiting: A User's Manual" and "A Goal Setting Procedure for the Navy's Delayed Entry Program", Reports prepared under Contract N00014-80-C-0200 between the Office of Naval Research and Duke University, Richard C. Morey, October, 1981). These analyses, using sophisticated optimization approaches, all presume that Headquarters has the wherewithall to implement the recruiter and advertising mixes that come out of the analysis. However, in reality a substantial amount of lead time is necessary to be able to move recruiters around, change the mix and timing of advertising, etc.

Returning to the tactical, near-term problem, there is a critical need, both for morale and for cost-effectiveness reasons, to be able to spread the national quota across the six Regions in as fair a manner as possible. Regions which did very well the previous year (in terms of exceeding their given quotas) should not necessarily be penalized by arbitrarily raising their quotas this year. Rather those decisions need to be based on a scientific and objective assessment of what reasonably can be expected from each Region, given its forecasted demographics and the recruiter resources that are "locked in" to each Region. Only if it can be demonstrated that a given Region's excelling of its expected performance was the result of some new demographic or change in circumstance, would an increase in the Region's quota be justified.

With this as the underlying philosophy, this report (and the accompanying computer program) addresses this problem for the quality recruits, i.e. those with a High School Degree (including GED's). Only quotas for quality recruits are really amenable to the analysis to be discussed since only they are truly supply limited. The approach to be used is referred to as multi-variate regression. Since the non-High School recruits tend to be demand limited (i.e. there are more applicants than slots available) regression methods, based on a fitting of productions to the mix of recruiting resources utilized, is not applicable. Indeed their inclusion in the regression analysis can mask the relationships sought for.

1.2 The General Method of Attack

The basic idea is to forecast the average number of male, non-prior service, Regular Navy plus reservists, HSG, enlistment contracts expected from each district for the upcoming year. Those numbers are based on estimates of the numbers of recruiters (or recruiter man-years) expected in each district for the upcoming year as well as the forecasted levels of key demographics such as the unemployment scenario and the numbers of male High School seniors estimated for each district. A host of other factors can be entered as well as dealing with anticipated advertising levels and other minor demographics (they are listed subsequently). However, to facilitate its use, if any factor is not entered explicitly, the Program defaults to the levels occurring in FY 80.

The forecaster used was built using monthly, district data from the time period January, 1976 - December 1978 and hence consisted of 36

months x 43 districts, or 1,548 cells. A pooled cross-sectional, time series model, using a powerful heteroscelastic regression package, was used. This technique, unlike that of ordinary least squares regression, allows and adjusts for unequal variances of the error terms and auto-correlations over time. A Koyck term was used to capture the lagged effects of advertising, of recruiter efforts, and of the unemployment rate. A non-linear model resulted which captured the strong diminishing return nature of recruiting resources, whereby each additional recruit costs marginally more to obtain since the pool of eligibles is shrinking. District dummies were purposefully excluded from the regressions performed so that differences in managerial efficiencies were not captured. Details of the predictor are described in the earlier referenced reports. It suffices at this point to stress that when the predictor was exercised on independent years, it yielded very close results (as compared with the actual level of HSG contracts). To be specific, for FY 79 a fit of within 4% occurred; the fit for FY 80 was even closer with an error of only 2.5% on a nationwide basis. Hence, the predictor has undergone very rigorous validation testing.

The idea then is to apply the contract enlistment forecaster to each Region (and the districts within each Region) for the upcoming year. In addition to providing Headquarters with an estimate of the total absolute numbers of quality contract likely to be obtained, one can compute the fair percentage of the quality recruits that should come from each Region. The same can be done for each district within each Region. Hence to illustrate, upon exercising the forecaster for

FY 80, 19.84% of the total national quota for HSG contracts appears to be the fair level for Area 100. (This follows since the forecaster yielded a total of 62,306 HSG contracts nationally and 12,362 for the sum of all the districts in Area 100; in other words .1984 = 12,362/62,306. To instill more credibility in the predictor, we note that in FY 80, the actual national number of HSG contracts obtained was 63,929, and for Area 100, it was actually 12,799. Additionally, for FY 80, one can compare, at the district level, the actual performances with the predicted performance, to help isolate "exceptional" districts. Field audits could then be used at these places to identify any systems, procedures or processes that should be dropped or made more widespread.

2.0 THE HSG CONTRACT FORECASTER

The validated regression model utilized included the following fourteen factors: i) # of recruiter man-months expended in each district by month, ii) the individual levels of dollars of advertising expended in the district by month for:

a) LAMS (classified ads);

b) National TV/Radio (GEP-General);

c) Magazines (GEP-General);

d) Direct Mail;

e) Minority Advertising;

f) JADOR (Joint Armed Forces, General and Minority).

(All advertising expenditures were inflation adjusted.)

iii) Size of Male High School Senior Population in district; iv) Local General Unemployment Rate in district by month; v) Size of Labor Force in district by month; vi) Ratio of Military Pay (First year) to Civilian Pay in district by month; vii) Proportion of the male, 17-21 population in district that is black; viii) Proportion of the male, 17-21 population in district that is in a SMSA; this captures the urban/rural flavor of the district; ix) The district's propensity to enlist as measured by responses to a questionnaire, capturing such diverse factors as the extent of military tradition in the area, proximity to military bases, education and income, etc.).

The major determinants of quality production were: i) Recruiter man-months with a long-term elasticity of .7292; that is to be interpreted that a 10% increase in recruiters in a district is likely to be accompanied by about a 7.29% increase in HSG contracts, if everything else remained unchanged; ii) The Number of Male High School Seniors at .2449; iii) The Local General Unemployment Rate at .1809; iv) "Propensity" at .6694; v) Ratio of Military Pay to Civilian Pay at .1679.

3.0 RESULTS FOR FY 80

3.1 Results at the Regional Level

Based on an exercising of the predictor for FY 80, with the actual levels of resources expended and the actual demographics occurring, the following results would have been obtained (see Table 1):

TABLE 1: ACTUAL VERSUS PREDICTED FOR FY 80

Region	# of Districts	Actual HSG Contracts for FY 80	Predicted (Percent of Total) HSG Contracts for FY 80 (Ignoring Differences in Managerial Efficiency)	Performance (Relative to Predicted)
100	7	12,799	12,362 (19,84%)	3.54% better than predicted
300	8	11,053	12,385 (19,88%)	10.75% poorer than predicted
400	8	13,508	11,528 (18.50%)	17.18% better than predicted
500	7	8,499	8,393 (13.47%)	1.27% better than predicted
700	8	7,333	8,343 (13.39%)	12.11% poorer than predicted
800	5	10,737	9,294 (14.97%)	15.53% better than predicted
Country	43	63,929	62,306 (100%)	2.5% better than predicted

Hence, had the predictor been used for FY 80, with perfect foreknowledge of the actual demographics and resources expended, the percentages in the 4th column would have been the percentages for the HSG quotas for that year. We also observe that Regions 400 and 800 appeared to substantially outperform the averages, and that Regions 300 and 700 appeared to substantially underperform. Regions 100 and 500 appear to be about on target.

Some caveats are in order before proceeding. It is possible there is some key demographic or factor (such as the levels of other services' advertising and recruiter levels, or income or education level) in the district that was omitted in the analysis that could help explain the deviations. The experience of the recruiters in each

district and the previously assigned district quotas themselves could also be possible explanations. One other very possible explanation is that there are indeed very real differences in the operating efficiencies across Regions; this could be due to the differences in a Region's philosophies, practices and internal allocations of recruiters and goals to its districts. Since any differences in managerial efficiencies were purposely excluded from the predictors, deviations of the actuals from the predicted could well be due to that cause. If this is the case, then field surveys, to help identify best practices, may be in order.

3.2 Suggestions for Allocating Quality Quotas to Districts Within Regions for FY 80

This section offers guidelines to aid the insights of the Regional Commanders so as to possibly improve their internal allocations of their Region's quality quotas to the districts within their Region. It is based on applying the previously mentioned regression analysis to the actual resource and demographic data for FY 80 at the district level. As before, differences in managerial efficiencies, as would have been captured if a district dummy variable had been included in the regression analysis, were purposefully excluded so as not to penalize districts which outperformed the averages. The Region Commander may wish to adjust the contract percentages coming out of the predictor to reflect differences in each district's Delayed Entry Pool at the beginning of the year.

Region 100 (7 Districts)

(12,362 HSG contracts predicted in FY 80; actual was 12,799)

NRD	101	13.49%
	102	18.64%
	103	14.45%
	104	17.03%
	105	8.61%
	119	14.42%
	161	13.38%
Region	100	100%

Region 300 (8 districts)

(12,385 HSG predicted in FY 80; 11,053 actual

NRD	310	11.49%
	311	9.80%
	312	16.06%
	313	12.74%
	314	12.52%
	315	13.13%
	347	9.46%
	348	14.79%
Region	300	100%

Region 400 (8 districts)

(11,528 HSG contracts predicted versus 13,508 actual)

NRD	407	8.79%
	408	8.70%
	409	12.00%
	417	13.54%
	418	14.43%
	420	9.68%
	422	22.95%
	423	9.9%
Region	400	100%

Region 500 (7 districts)

(8,393 HSG contract predicted in FY 80; 8,499 actual)

NRD	521	21.87%
	524	14.98%
	527	11.23%
	528	14.33%
	529	11.29%
	541	15.88%
	559	10.43%
Region	500	100%

Region 700 (8 districts)

(8,343 HSG contracts predicted in FY 80 versus 7,333 actual)

NRD	725	15.25%
	730	12.85%
	731	14.57%
	732	13.60%
	733	13.23%
	734	8.92%
	735	8.39%
	746	13.19%
Region	700	100%

Region 800 (5 districts)

(9,295 HSG contracts predicted for FY 80 versus 10,737 actual)

NRD	836	25.82%
	837	14.41%
	838	30.04%
	839	14.15%
	840	15.57%
Region	800	100%

4.0 IDENTIFICATION OF "EXCEPTIONAL" DISTRICTS BASED ON PERFORMANCE LEVELS IN FY 80

This Section is included to identify a total of about one-third of the districts (i.e. 14 districts out of the 43) which might be termed "exceptional", based on the differences in their level of production of male HSG contracts in FY 80, compared to the predicted. Of these 14, there are 8 which did substantially better than was predicted and 6 that

did substantially worse than was predicted. Again, this type of information can be helpful in identifying those locations where selected field audits would be fruitful in uncovering particularly helpful or harmful processes that are being used.

Consider first the 8 exceptional districts which were high performers.

Exceptionally High Producing Districts for FY 80 (of Male HSG Contracts)

District #	Predicted	Actual	Percent By Which Actual Exceeded Predicted
105	1,064	1,263	18.7%
409	1,383	2,017	45.8%
418	1,663	1,941	16.7%
420	1,115	1,552	39.2%
422	2,646	3,068	15.9%
527	942	1,202	27.6%
837	1,339	1,709	27.6%
840	1,447	1,929	33.3%

In the same spirit, there were 6 districts which had substantially lower levels of HSG contracts in FY 80 than would have been predicted by the model. These are:

Exceptionally Underproducing Districts for FY 80
(of Male, Non-Prior Service, Regular Navy Plus Reservists, HSG Contracts)

District #	Predicted	Actual	Percent By Which Actual Varied from Predicted
312	1,988	1,589	-20.1%
314	1,551	1,245	-19.7%
348	1,831	1,529	-16.5%
725	1,272	1,086	-14.6%
734	743	583	-21.5%
735	699	547	-21.7%

APPENDIX: A User's Manual with an Illustration

A.1 Overview

The types of data and formating required are very similar to that delivered in the "Multi-year Budget Generation Program" of Duke Univ. of October, 1981. In the listing of the program which follows, the data is read from the unit number 6.

A.2 Description

The program first reads the data for all the months for the first district, then reads the data for all the months for the next district and so on for each until it finishes reading the data for all 43 districts. For each type of demographic or resource to be entered in a given run, it is necessary to enter fourteen months of data for each district.

The fourteen months consist of the last two months of the previous fiscal year, and the twelve months corresponding to the fiscal year under consideration. These additional 2 months are needed to adjust for the lagged effects. Hence, if the year in question was FY 83 (i.e. October 82-September 83), and the only demographic to be modified was the local unemployment rate, then one would first need to enter forecasts, for each of the 43 districts, of the expected unemployment rates for the months of Augusts, and September, 1982 as well as the forecasts for the months of October, 1982-September, 1983. Unless all of the data for a given factor, i.e. for the entire 14 month period is entered, the Program will not run. However, if no data is entered for a given factor, say the unemployment rate, the Program will default to the levels existing for the period August, September 1979, and October, 1979-September, 1980 (i.e. FY 80). Hence, if no new data was entered at all, the Program would reproduce the predictions for FY 80. The example at the end of this section is presented to illustrate these ideas.

A.3 Formats

The variables are read in the following formats:

	Variable Description	Format	Columns
1.	National Recruiting Dist. No. (WRD).	I3	1-3
2.	Year (e.g. 1982)	I3	4-6
3.	Month (e.g. month 8's the August month)	I3	7-9
4.	Number of recruiters	F4.0	10-13
5.	Number of national leads	F4.0	14-17
6.	Number of High Sch. Graduate Contracts, if used in mode to identify exceptional districts	F4.0	18-21

Adv. Expenditure Dollars

		Format	Columns
7.	Media type I (TV + Radio + Billboards)	F7.1	22-28
8.	Media type II (magazines + newspapers + suppl.)	F7.1	29.35
9.	Direct mail	F7.1	36-42
10.	All minority media (enlisted)	F7.1	43-49
11.	JADOR (GEP-General and Minority)	F7.1	50-56
12.	LAMS (classified ads)	F7.1	57-63
13.	Male High School Seniors	F7.1	64-70
14.	Labor Force	F7.1	71-77
15.	Propensity	F7.4	78-84
16.	Percent black of male, 17-21 year old population	F7.4	85-91
17.	Percent of male, 17-21 old population in a SMSA	F7.4	92-98
18.	Ratio of military pay to civilian pay	F7.4	99-105
19.	General enemployment rate	F7.4	106-112
20.	CPI for year in question (relative to level in 1967) (this is only used if estimated advertising expenditures are to be used).	F5.3	113-117.

It is important to include the decimal point in the data set except for variables 1 through 6. If there is a missing data, the program stops after writing an appropriate message.

1.4 Example

Suppose the fiscal year under consideration was FY 83. Therefore, the twelve months under consideration are October 1982 - September 1983. In addition to these twelve months' dates, data for August and

September of 1982, are required. Thus for each NRD, any data assumed to change from the FY 80 levels, is required for 14 months. These cards for 14 months should be arranged in chronological order. Consider the first NRD, no. 101. The first card will correspond to August 82 and will have NRD = 101, year = 82, month = 8 and the values of the 17 variables in the format explained in section A.3. The second card will correspond to September 82 and thus will have NRD = 101, year 82, month = 9 and the data for 17 variables. The third card will correspond to October 82 (the first month of the fiscal year under consideration) and will have NRD = 101, year 82, month = 10 and 17 variables. This will continue till the 14th card for September 1983 for NRD = 101 is read.

Next card will correspond the next NRD no. 102. The following 14 cards are arranged in the same way. The pattern of arrangement of 14 cards within one NRD is illustrated in the text. The NRD's are in ascending order. These are 602 cards in the input file.

To illustrate, consider the data sets presented below. The first, labeled "Base Year Date", is the data, by month, by district for the 14 month period August, 1979 - September, 1980 and represents the actual situation for FY 80. To illustrate the first line, in district 101, for the month of August, 1979 (i.e. month 8, year 1979), there were 106 recruiters in the field in that district, 185 NOIC leads that mouth, 154 HSG, male contracts were actually obtained, there was $8,816 of TV/Radio/ Billboard advertising impacting that district that month, $151 of magazine advertising, $19 of direct mail advertising, $215 of minority

BASE YEAR DATA:

101	79	8	106.	185.	154.	6816.4	151.2	19.6	215.9	2615.7	3891.0	43451.0	2343.6	0.2216	7.2083	83.8312	0.6895	0.0475	2.211
101	79	9	106.	221.	1292.	8966.1	1.0	1574.4	215.9	87243.0	3891.0	43451.0	2341.8	0.2216	7.2083	83.8312	0.6895	0.0477	2.238
101	79	10	104.	167.	123.	22287.2	972.8	3606.6	217.8	20895.7	4009.3	43451.0	2336.0	0.2101	7.2083	83.8312	0.7641	0.0479	2.254
101	79	11	106.	946.	120.	14870.3	1.0	29.8	363.1	3966.0	4009.3	43451.0	2343.2	0.2101	7.2083	83.8312	0.7641	0.0479	2.275
101	79	12	109.	165.	101.	1.0	1.0	23.8	23.8	1.0	4009.3	43451.0	2384.3	0.2101	7.2083	83.8312	0.7576	0.0523	2.299
101	80	1	109.	314.	140.	4845.5	1.0	23.2	23.0	48729.8	2814.7	43451.0	2351.2	0.2101	7.2083	83.8312	0.7501	0.0600	2.333
101	80	2	110.	334.	163.	12782.5	1.0	100.0	489.4	26355.9	2814.7	43451.0	2335.5	0.2101	7.2083	83.8312	0.7472	0.0553	2.365
101	80	3	108.	391.	142.	9970.2	1.0	26.6	316.6	34603.9	2814.7	43451.0	2341.1	0.2101	7.2083	83.8312	0.7328	0.0513	2.399
101	80	4	104.	323.	115.	568.8	86.8	22.1	459.5	25355.3	3207.3	43451.0	2348.2	0.2101	7.2083	83.8312	0.7369	0.0497	2.426
101	80	5	101.	144.	112.	1191.1	1.0	26.7	459.8	12336.0	3207.3	43451.0	2368.2	0.2101	7.2083	83.8312	0.7362	0.0528	2.451
101	80	6	96.	282.	120.	168.5	1.0	22.8	126.4	7471.3	3207.3	43451.0	2392.7	0.2101	7.2083	83.8312	0.7334	0.0593	2.478
101	80	7	96.	299.	179.	12182.7	1.0	25.4	1.0	7471.3	4924.7	43451.0	2398.6	0.2101	7.2083	83.8312	0.7275	0.0610	2.480
101	80	8	98.	171.	155.	11292.4	1.0	24.9	1.0	10966.2	4924.7	43451.0	2383.4	0.2101	7.2083	83.8312	0.7226	0.0599	2.496
101	80	9	99.	401.	179.	435.1	18.6	6070.7	1.0	7999.4	4924.7	43451.0	2373.7	0.2101	7.2083	83.8312	0.7162	0.0565	2.519
102	79	8	138.	259.	251.	18086.3	145.7	25.1	37.8	3579.4	4603.8	68457.0	3779.4	0.2601	3.3026	77.2460	0.6695	0.0474	2.211
102	79	9	136.	320.	200.	15772.8	1.0	2061.4	28.4	66615.3	4603.8	68457.0	3757.5	0.2601	3.3026	77.2460	0.6895	0.0477	2.238
102	79	10	135.	284.	166.	38081.4	1405.3	5008.7	151.5	29306.3	4626.7	68457.0	3696.3	0.2101	3.3026	77.2460	0.8096	0.0446	2.254
102	79	11	138.	1389.	188.	36394.5	1.0	29.6	265.7	5808.2	4626.7	68457.0	3669.8	0.2101	3.3026	77.2460	0.8019	0.0475	2.275
102	79	12	133.	316.	110.	1.0	1.0	33.1	10.4	1.0	4626.7	68457.0	3705.3	0.2101	3.3026	77.2460	0.8973	0.0523	2.299
102	80	1	131.	500.	222.	4242.1	1.0	1557.3	1.0	74371.2	6111.0	68457.0	3690.3	0.2101	3.3026	77.2460	0.8621	0.0562	2.333
102	80	2	130.	608.	231.	8671.9	1.0	5929.7	301.7	39876.3	6111.0	68457.0	3693.5	0.2101	3.3026	77.2460	0.8588	0.0593	2.365
102	80	3	130.	845.	189.	5161.5	1.0	24.7	172.3	5155.8	6111.0	68457.0	3711.5	0.2101	3.3026	77.2460	0.8487	0.0566	2.399
102	80	4	131.	529.	166.	25956.5	39.2	32.1	281.5	37564.5	6111.0	68457.0	3711.5	0.2101	3.3026	77.2460	0.8469	0.0547	2.426
102	80	5	133.	253.	167.	52694.0	1.0	31.8	281.5	22610.6	5153.3	68457.0	3753.9	0.2101	3.3026	77.2460	0.8461	0.0574	2.451
102	80	6	134.	743.	211.	9043.2	1.0	31.8	1.0	11961.3	5153.3	68457.0	3802.3	0.2101	3.3026	77.2460	0.8629	0.0651	2.478
102	80	7	139.	287.	264.	20105.6	1.0	36.9	1.0	11961.3	4669.0	68457.0	3836.6	0.2101	3.3026	77.2460	0.8561	0.0659	2.480
102	80	8	138.	599.	270.	53462.6	1.0	39.0	1.0	15500.8	4669.0	68457.0	3838.1	0.2101	3.3026	77.2460	0.8307	0.0601	2.496
102	80	9	141.	577.	239.	20521.1	21.0	6528.3	1.0	12025.5	4669.0	68457.0	3814.2	0.2101	3.3026	77.2460	0.8231	0.0585	2.519
103	79	8	115.	167.	206.	8559.5	155.9	19.5	388.2	1301.2	6163.0	40635.0	1836.8	0.2216	7.5508	74.4837	0.6895	0.0661	2.211
103	79	9	120.	202.	168.	8387.0	1.0	1255.0	291.1	40781.3	6163.0	40635.0	1895.8	0.2216	7.5508	74.4837	0.6895	0.0641	2.238
103	79	10	116.	138.	115.	18968.8	107.2	3938.5	338.6	17835.1	2723.0	40632.0	1825.7	0.2101	7.5508	74.4837	0.6688	0.0668	2.254
103	79	11	120.	926.	130.	13950.3	1.0	25.9	456.8	3999.8	2723.0	40632.0	1855.0	0.2101	7.5508	74.4837	0.6650	0.0647	2.275
103	79	12	122.	111.	111.	1.0	1.0	25.9	107.2	1.0	2723.0	40632.0	1857.9	0.2101	7.5508	74.4837	0.6594	0.0730	2.299
103	80	1	116.	322.	157.	8099.5	1.0	3522.9	1.0	43085.7	3567.0	40632.0	1836.6	0.2101	7.5508	74.4837	0.6439	0.0847	2.333
103	80	2	113.	338.	171.	11610.1	1.0	2478.5	697.6	22357.6	3567.0	40632.0	1838.3	0.2101	7.5508	74.4837	0.6414	0.0802	2.365
103	80	3	114.	464.	137.	11512.6	1.0	19.9	540.1	30365.1	3567.0	40632.0	1803.9	0.2101	7.5508	74.4837	0.6336	0.0723	2.399
103	80	4	112.	259.	120.	5715.3	15.6	26.6	655.7	19516.7	2441.7	40632.0	1769.8	0.2101	7.5508	74.4837	0.6325	0.0749	2.426
103	80	5	111.	114.	112.	7677.8	1.0	23.5	655.7	6974.8	2441.7	40632.0	1780.7	0.2101	7.5508	74.4837	0.6319	0.0809	2.451
103	80	6	114.	277.	148.	2022.8	1.0	22.8	496.3	6724.5	2441.7	40632.0	1797.5	0.2101	7.5508	74.4837	0.6295	0.0818	2.478
103	80	7	110.	143.	207.	5259.6	1.0	20.2	1.0	6724.5	7561.7	40632.0	1819.5	0.2101	7.5508	74.4837	0.6244	0.0834	2.480
103	80	8	104.	160.	205.	9520.8	1.0	21.9	1.0	7467.3	7561.7	40632.0	1814.1	0.2101	7.5508	74.4837	0.6204	0.0818	2.496
103	80	9	103.	342.	181.	4458.0	16.8	6865.0	1.0	7171.6	7561.7	40632.0	1772.1	0.2101	7.5508	74.4837	0.6147	0.0727	2.519
104	79	8	96.	617.	191.	19620.5	194.9	41.9	5626.3	5325.7	2047.0	62148.0	4984.1	0.187220	0.0085	100.0000	0.6895	0.0792	2.211
104	79	9	90.	655.	175.	20491.4	1.0	1892.4	5593.4	65479.3	2047.0	62148.0	4869.7	0.187220	0.0085	100.0000	0.6895	0.0810	2.238
104	79	10	96.	421.	144.	49684.0	1548.0	5732.0	5369.7	42348.6	2634.0	62148.0	4860.2	0.210120	0.0085	100.0000	0.8675	0.0729	2.254
104	79	11	101.	2058.	144.	31430.0	1.0	55.1	6124.7	9375.5	2634.0	62148.0	4955.5	0.210120	0.0085	100.0000	0.8431	0.0707	2.275
104	79	12	103.	411.	136.	1.0	1.0	52.0	2258.9	1.0	2634.0	62148.0	4963.2	0.210120	0.0085	100.0000	0.8360	0.0663	2.299
104	80	1	103.	974.	175.	6513.3	1.0	46.6	1.0	85701.6	2652.3	62148.0	4939.3	0.210120	0.0085	100.0000	0.8154	0.0822	2.333
104	80	2	102.	671.	173.	26090.7	1.0	208.8	9818.3	33013.6	2652.3	62148.0	4995.4	0.210120	0.0085	100.0000	0.8122	0.0818	2.365
104	80	3	111.	1354.	177.	19592.1	1.0	47.3	8803.6	64567.4	2652.3	62148.0	4874.3	0.210120	0.0085	100.0000	0.8023	0.0737	2.399
104	80	4	107.	743.	156.	1.0	30.6	46.1	9462.7	39188.5	4505.7	62148.0	4798.9	0.210120	0.0085	100.0000	0.8010	0.0657	2.426
104	80	5	109.	523.	162.	1.0	1.0	43.8	9491.6	20697.6	4505.7	62148.0	4862.7	0.210120	0.0085	100.0000	0.8002	0.0725	2.451
104	80	6	112.	745.	172.	1.0	1.0	42.9	10134.8	11013.1	4505.7	62148.0	4935.0	0.210120	0.0085	100.0000	0.7972	0.0665	2.478
104	80	7	114.	348.	210.	5791.7	1.0	43.5	1.0	11013.1	3859.3	62148.0	5115.6	0.210120	0.0085	100.0000	0.7908	0.0838	2.480
104	80	8	119.	365.	224.	30472.8	1.0	52.3	1.0	19987.8	3859.3	62148.0	5014.9	0.210120	0.0085	100.0000	0.7857	0.0778	2.496
104	80	9	124.	916.	302.	1.0	28.9	10145.3	1.0	10020.3	3859.3	62148.0	4832.9	0.210120	0.0085	100.0000	0.7785	0.0756	2.519
105	79	8	59.	93.	102.	5623.2	171.6	14.2	0.6	1511.4	592.0	30206.0	1424.6	0.2159	3.9893	68.0345	0.6895	0.0652	2.211
105	79	9	68.	103.	110.	4329.7	1.0	1478.5	0.5	35129.3	593.0	30206.0	1406.3	0.2159	3.9893	68.0345	0.6895	0.0661	2.238
105	79	10	65.	75.	81.	10688.0	533.8	1437.1	45.2	14952.7	899.3	30206.0	1423.9	0.2101	3.9893	68.0345	0.8415	0.0742	2.254
105	79	11	70.	501.	90.	5942.2	1.0	20.8	86.3	3308.9	899.3	30206.0	1428.1	0.2101	3.9893	68.0345	0.8372	0.0641	2.275
105	79	12	71.	78.	79.	15.7	1.0	19.0	0.3	899.3	30206.0	1431.0	0.2101	3.9893	68.0345	0.8341	0.0745	2.299

AREA=500

NRD	ESTIMATED HSG	%FOR THE AREA
521	1835.4483	0.218650
524	1256.9924	0.149761
527	942.4774	0.112289
528	1202.9191	0.143319
529	947.2999	0.112864
541	1332.6234	0.158772
559	875.5622	0.104317
TOTAL	8393.3227	

AREA=700

NHD	ESTIMATED HSG	%FOR THE AREA
725	1272.6502	0.152537
730	1072.1466	0.128505
731	1215.9075	0.145743
732	1134.4762	0.135976
733	1103.8204	0.132301
734	743.8207	0.089153
735	699.8479	0.083882
740	1100.5066	0.131904
TOTAL	8343.2361	

Appendix 2 (Tab)

AREA=800

NRD	ESTIMATED HSG	%FOR THE AREA
836	2400.1095	0.258226
837	1339.5821	0.144125
838	2792.3984	0.300429
839	1315.0044	0.141480
840	1447.5457	0.155740

TOTAL 9294.6102

GIVEN DATA

advertising, $2,615 of JADOR Advertising, $3,891 of LAMS advertising; also there were 43,451/male High School seniors in the district, the labor force was 2,363,600, the propensity index was .2216, the percent of the male, 17-21 year old population in the district that was black was 7.2003%; 83.8312% of the male, 17-21 old population in the district resulted in a SMSA, the ratio of first year military pay to civilian pay was .6895, and the local general unemployment rate was 4.73%. Finally the CPI index for August, 1979 (relative to the base year level of 1 in 1967) was 2.211.

Using the data in the base set (i.e. not entering any new data), the predictions presented in Section 3 for FY 80 would result since all of the data elements would default to the FY 80 levels. (See Appendix 2).

Consider a new hypothetical run, say for FY 83 assuming that only two key demographics are varied, namely the number of male, HS seniors in each district and the local unemployment rate. Suppose for concreteness that it is assumed the number of male, HS seniors in each district of the year in question is reduced to 92% of the levels in FY 80, but the local unemployment rates are all increased by two percentage points. Hence, e.g. for district 101 for the month of August of 82, (i.e. 2 months before the start of fiscal year 83), the male HS senior population is assumed to be only 39,975 (compared to 43,451 in August, 1979, i.e. 39,975 = .92(43,451) and the local unemployment rate has risen by two percentage points from 4.73% in August, 1979 to 6.73% in August, 1982. (This represents almost a 50% increase in the local unemployment rate.)

Hence since the elasticity on HSG contracts for the unemployment rate is about equal to the elasticity on HSG contracts for HS seniors, one would expect the large rise in the unemployment rate to more than offset the lower production due to the drop in HS seniors of 8%. The result should be an increase in the absolute levels of HSG contracts obtained . Indeed this is the case as can be seen from the run, the total number of HSG, male contracts now being estimated at 64,219 (in contrast to the 62,306 estimated for FY 80.) The new percentages for each region are also given and very slightly from those for FY 80.

RESULTS FOR HYPOTHETICAL ILLUSTRATION

Regions	Number of Male HSG Contracts Predicted	Percentages
100	12,701	19.78%
300	12,785	19.91%
400	11,812	18.39%
500	8,681	13.52%
700	8,677	13.51%
800	9,564	14.89%
Country	64,219	100%

```
104 79  9  90. 655. 175. 20491.4        1.0        5389.7  42348.1  2634.0 62148.0  4860.2 0.210120.0085100.0000 0.8431 0.0707 2.375
104 79 10  96. 421. 144. 89664.0  1546  1.0  5732.0  5555.1   6124.7   9375.5  2634.0 62148.0  4955.5 0.210120.0085100.0000 0.8431 0.0707 2.375
104 79 11 101.2058. 144. 31430.0        1.0        2258.9     1.0   2634.0 62148.0  4963.2 0.210120.0085100.0000 0.8360 0.0663 2.299
104 79 12 103. 411. 136.        1.0        1.0  5570.1.6  5652.3  2634.0 62148.0  4939.3 0.210120.0085100.0000 0.8154 0.0822 2.333
104 80  2 103. 974. 175. 6513.3        1.0  208.8  9819.3  3301.6  2655.3 62148.0  4995.4 0.210120.0085100.0000 0.8122 0.0818 2.365
104 80  3 102. 671. 173. 26090.7        1.0        6803.6  64567.8  2655.3 62148.0  CA78.3 0.210120.0085100.0000 0.8023 0.0737 2.399
104 80  4 111.1354. 177. 19592.1        1.0  30.6  9462.7  39188.5  4505.7 62148.0  4798.9 0.210120.0085100.0000 0.8010 0.0657 2.426
104 80  5 107. 733. 156.        1.0        1.0  9491.6  20697.6  4505.7 62148.0  4882.7 0.210120.0085100.0000 0.8002 0.0725 2.451
104 80  6 109. 522. 162.        1.0        1.0  10134.4  11013.1  3859.3 62148.0  4935.0 0.210120.0085100.0000 0.7972 0.0665 2.478
104 80  7 112. 745. 172. 579.7        1.0        1.0  11013.1  3859.3 62148.0  5115.6 0.210120.0085100.0000 0.7908 0.0838 2.480
104 80  8 119. 548. 210.        1.0        1.0  19987.8  3859.3 62148.0  5014.9 0.210120.0085100.0000 0.7857 0.0778 2.496
104 80  9 124. 916. 302.        1.0  26.9 10145.3        1.0  10020.3  3859.3 62148.0  4832.9 0.210120.0085100.0000 0.7785 0.0756 2.519

105 79  8  59. 93. 102. 5623.2  17.6  18.2  0.6  1511.4  592.0 30206.0  1424.6 0.2159 3.9893 68.0345 0.6895 0.0652 2.211
105 79  9  68. 103. 110. 4329.7        1.0  1478.5  0.5  3512.3  593.0 30206.0  1806.3 0.2159 3.9893 68.0345 0.8415 0.0742 2.254
105 79 10  65. 75. 81. 10688.0  53.8  1.0  1837.1  45.2  14952.7  899.3 30206.0  1423.9 0.2159 3.9893 68.0345 0.8372 0.0681 2.275
105 79 11  70. 501. 90. 5942.6        1.0        20.8  86.3  3308.9  899.3 30206.0  1421.9 0.2159 3.9893 68.0345 0.8501 0.0685 2.299
105 79 12  71. 78. 70. 15.7        1.0        1.0        1.9  899.3 30206.0  1424.4 0.2159 3.9893 68.0345 0.8012 0.0762 2.333
105 80  2  71. 325. 88. 1378.        1.0        1.0  37759.8  829.3 30206.0  1431.2 0.2159 3.9893 68.0345 0.7981 0.0753 2.365
105 80  3  71. 357. 68. 4757.0        1.0  17.0  104.8  10231.6  829.3 30206.0  1424.9 0.2159 3.9893 68.0345 0.7884 0.0740 2.399
105 80  4  69. 223. 85. 3627.0        1.0        17.6  59.9  24884.7  829.3 30206.0  1414.2 0.2159 3.9893 68.0345 0.7871 0.0699 2.426
105 80  5  67. 166. 104. 122.7        2.5  1.0  14.9  100.2  16717.2  442.7 30206.0  1411.3 0.2159 3.9893 68.0345 0.7864 0.0707 2.451
105 80  6  65.  79. 99. 287.7        1.0        16.9        1.0  6516.9  442.7 30206.0  1336.9 0.2159 3.9893 68.0345 0.7874 0.0834 2.478
105 80  7  64. 149. 98. 40.3        1.0        16.9        1.0  6516.9  408.0 30206.0  1441.9 0.2159 3.9893 68.0345 0.7771 0.0925 2.480
105 80  8  63. 110. 157. 764.9        1.0        18.3        1.0  8037.3  408.0 30206.0  1485.4 0.2159 3.9893 68.0345 0.7721 0.0776 2.496
105 80  9  62. 117. 133. 3594.0        1.0        17.3        1.0  5987.7  408.0 30206.0  1835.2 0.2161 3.9893 68.0345 0.7650 0.0709 2.519

119 79  8 103. 216. 228.10306.5  149.1  23.5  2559.5  1678.0  1883.0 46210.0  2685.8 0.1962 18.7676 94.9649 0.6895 0.0743 2.211
119 79  9 105. 269. 199.13283.5        1.0  146.2  2531.7  44868.6  2272.7 46210.0  2678.3 0.1962 18.7676 94.9649 0.6895 0.0746 2.254
119 79 10 111. 266. 155.11463.4  98.0  1.0  331.8  2583.1  23560.2  2272.7 46210.0  2696.3 0.2101 18.7676 95.9649 0.7559 0.0742 2.258
119 79 11 105.1119. 130.20294.6        1.0        30.6  3072.6  5104.6  2272.7 46210.0  2704.9 0.2101 18.7676 95.9649 0.7222 0.0681 2.275
119 79 12 107. 188. 115.        1.0        1.0  1006.6        1.0  2272.7 46210.0  2704.9 0.2101 18.7676 95.9649 0.7161 0.0609 2.299
119 80  2 106. 579. 157. 4184.8        1.0        35.8        1.0  4886.3  2272.7 46210.0  2693.0 0.2101 18.7676 94.9649 0.7163 0.0674 2.333
119 80  3 105. 446. 170.16765.9        1.0  331.1  3189.0  23421.5  2272.7 46210.0  2702.4 0.2101 18.7676 94.9649 0.7135 0.0682 2.365
119 80  4 103. 522. 153.12562.3        1.0        34.1  2613.9  3301.3  2272.7 46210.0  2709.2 0.2101 18.7676 94.9649 0.7048 0.0702 2.399
119 80  5 102. 803. 154.        0.8  49.7  58.1  3132.6  27878.8  2272.7 46210.0  2689.6 0.2101 18.7676 94.9649 0.7036 0.0653 2.426
119 80  6 106. 168. 130.        0.8        25.6        1.0  6225.2  2272.7 46210.0  2700.4 0.2101 18.7676 94.9649 0.7030 0.0692 2.451
119 80  7 105. 386. 179.        1.0        27.5  2523.9  6225.2  2272.7 46210.0  2729.7 0.2101 18.7676 94.9649 0.7007 0.0738 2.478
119 80  8 104. 218. 217. 3086.        1.0        28.0        1.0  6295.6  2272.7 46210.0  2739.8 0.2101 18.7676 94.9649 0.6947 0.0807 2.480
119 80  9 98. 195. 205.16223.        1.0  17.2  58.2        1.0  10121.4  3827.0 46210.0  2742.9 0.2101 18.7676 94.9649 0.6902 0.0726 2.496
119 80 10 97. 467. 186.        1.0  17.2  3315.3        1.0  6076.0  3827.0 46210.0  2696.5 0.2101 18.7676 94.9649 0.6849 0.0665 2.519

161 79  8  85. 241. 186.12121.3  134.7  24.9  2419.3  3299.0  1928.0 41528.0  2669.2 0.2216 12.3827 90.8613 0.6895 0.0772 2.211
161 79  9  90. 687. 160.11362.1        1.0  1202.5  2412.1  51966.5  1928.0 41528.0  2709.3 0.2216 12.3827 90.8613 0.6895 0.0772 2.254
161 79 10  89. 289. 91.21392.2  94.3  1.0  1537.6  1653.7  35508.8  1928.0 41528.0  2708.1 0.2101 12.3827 90.8613 0.7456 0.0660 2.258
161 79 11  88.1027. 78.17412.8        1.0        33.8  2096.7  8775.6  1928.0 41528.0  2699.5 0.2101 12.3827 90.8613 0.7418 0.0689 2.275
161 79 12  86. 187. 74.        1.0        30.8  659.3        1.0  4412.3 41528.0  2669.5 0.2101 12.3827 90.8613 0.7355 0.0618 2.299
161 80  2  91. 422. 146. 3866.        1.0        27.3        1.0  5009.4  2970.0 41528.0  2703.5 0.2101 12.3827 90.8613 0.7178 0.0744 2.333
161 80  3  89. 204. 161. 15503.        1.0  173.8  2326.7  25793.2  2970.0 41528.0  2985.8 0.2101 12.3827 90.8613 0.7150 0.0635 2.365
161 80  4  88. 312. 104. 11649.2        1.0        27.8  1791.5  5431.2  2970.0 41528.0  2978.2 0.2101 12.3827 90.8613 0.7063 0.0723 2.399
161 80  5  98. 213. 126.        1.0        28.7  2218.0  25007.8  3784.0 41528.0  2651.2 0.2101 12.3827 90.8613 0.7051 0.0655 2.426
161 80  6  99. 315. 109.        1.0  5.6  28.6  2218.0  12575.3  3784.0 41528.0  1980.5 0.2101 12.3827 90.8613 0.7045 0.0877 2.451
161 80  7  94. 213. 126.        1.0        28.6        1.0  7197.6  3784.0 41528.0  2020.9 0.2101 12.3827 90.8613 0.7018 0.0861 2.478
161 80  8 101. 269. 128.        1.0        30.9  1773.2  7197.6  3784.0 41528.0  2029.9 0.2101 12.3827 90.8613 0.6961 0.0866 2.480
161 80  9 100. 160. 178.14906.2        1.0        29.5        1.0  12590.1  1454.0 41528.0  1996.6 0.2101 12.3827 90.8613 0.6917 0.0766 2.496
161 80 10 108. 409. 206.        1.0  17.2  4299.7        1.0  6874.1  1454.0 41528.0  1951.9 0.2101 12.3827 90.8613 0.6853 0.0758 2.519

310 79  8  65. 120. 140. 6848.2  280.0  12.8  728.5  1029.9  1628.0 26057.0  1612.2 0.2551 29.3255 57.2945 0.6895 0.0693 2.211
310 79  9  66. 132. 116. 6090.5        1.0  1434.0  638.3  26541.4  1628.0 26057.0  1626.5 0.2551 29.3255 57.2945 0.6895 0.0686 2.254
310 79 10  64. 194. 59.14632.1  229.2  2451.5  1116.3  14449.7  2006.7 26057.0  1635.6 0.3164 29.3255 57.2945 0.6538 0.0673 2.254
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310	79	12	71.	132.	82.		1.0		1.0	15.0	391.1		1.0	2006.7	26057.0	1599.9	0.316429.	3255	57.2945	0.8422	0.0714	2.299
310	80	1	74.	215.	126.	2089.5		1.0		17.5		1.0	3202.2	264.7	26057.0	1576.0	0.316429.	3255	57.2945	0.8210	0.0772	2.333
310	80	2	72.	223.	137.	9104.2		1.0		48.6	2605.5		15879.4	264.7	26057.0	1584.5	0.316429.	3255	57.2945	0.8178	0.0162	2.365
310	80	3	72.	192.	89.	7019.1		1.0		15.4	1994.3		12011.1	264.7	26057.0	1588.3	0.316429.	3255	57.2945	0.8078	0.0706	2.399
310	80	4	75.	222.	86.		1.0		49.0	13.3	2492.8		16400.7	1034.0	26057.0	1592.2	0.316429.	3255	57.2945	0.8065	0.0731	2.426
310	80	5	73.	99.	78.		1.0		1.0	13.3	2492.8		6909.9	1034.0	26057.0	1616.8	0.316429.	3255	57.2945	0.8057	0.0795	2.451
310	80	6	73.	191.	132.		1.0		1.0	11.5	1997.2		4015.5	1034.0	26057.0	1606.4	0.316429.	3255	57.2945	0.8027	0.0920	2.478
310	80	7	74.	114.	141.	1731.6		1.0		1.0		1.0	4015.5	1124.7	26057.0	1622.4	0.316429.	3255	57.2945	0.7962	0.1076	2.480
310	80	8	74.	186.	143.	8185.8		1.0		17.6		1.0	5876.4	1124.7	26057.0	1603.0	0.316429.	3255	57.2945	0.7911	0.0935	2.496
310	80	9	78.	366.	119.		1.0		36.3	2762.9		1.0	4212.1	1124.7	26057.0	1608.6	0.316429.	3255	57.2945	0.7858	0.0890	2.519
311	79	8	58.	111.	128.	4804.5		127.3		14.2	500.4		919.1	1440.0	25519.0	1557.5	0.287935.	0411	60.4208	0.6895	0.0467	2.211
311	79	9	66.	150.	156.	6409.5		1.0		10.6	1138.1		3753.3	1441.8	25519.0	1551.5	0.287935.	0611	60.4208	0.6895	0.0469	2.234
311	79	10	62.	130.	88.	10435.8		354.5		3.5	3705.7		5611.8	2078.3	25519.0	1555.2	0.316435.	0611	60.4208	0.9857	0.0481	2.254
311	79	11	61.	1172.	59.	7203.9		1.0		21.9	803.5		1937.2	2010.3	25519.0	1542.8	0.316435.	0611	60.4208	0.9807	0.0493	2.275
311	79	12	59.	128.	97.		1.0		1.0	13.6	138.2		1.0	2270.3	25519.0	1515.2	0.316435.	0611	60.4208	0.9722	0.0498	2.299
311	80	1	57.	364.	105.	1470.4		1.0		12.5		1.0	29131.3	936.	25519.0	1491.1	0.316435.	0611	60.4208	0.94	0.0579	2.333
311	80	2	56.	255.	107.	5668.8		1.0		13.0	1450.9		12921.5	936.	25519.0	1486.2	0.316435.	0611	60.4208	0.9345	0.0637	2.365
311	80	3	56.	321.	81.	7415.1		1.0		18.6	1089.1		21946.6	936.	25519.0	1477.3	0.316435.	0611	60.4208	0.9249	0.0623	2.399
311	80	4	59.	253.	101.		5.6		36.2	21.4	1376.2		13930.9	2334.	25519.0	1474.3	0.316435.	0611	60.4208	0.9253	0.0794	2.426
311	80	5	57.	102.	104.		1.2		1.0	15.6	1376.2		1326.6	2334.	25519.0	1469.4	0.316435.	0611	60.4208	0.9264	0.0653	2.451
311	80	6	55.	181.	150.		1.0		1.0	14.3	997.8		3416.8	2334.	25519.0	1521.9	0.316435.	0611	60.4208	0.9210	0.0834	2.478
311	80	7	55.	129.	137.	964.2		1.0		18.9		1.0	3416.8	636.7	25519.0	1527.4	0.316435.	0611	60.4208	0.9135	0.0818	2.480
311	80	8	58.	193.	141.	5015.6		1.0		18.7		1.0	7505.5	636.7	25519.0	1531.9	0.316435.	0611	60.4208	0.9077	0.0689	2.496
311	80	9	56.	339.	187.		1.0		4.9	4007.5		1.0	3546.9	636.7	25519.0	1585.9	0.316435.	0611	60.4208	0.8993	0.0670	2.519
312	79	8	83.	158.	150.	5273.2		162.7		10.7		10.0	800.8	2527.0	32891.0	1200.9	0.282820.	4246	70.5030	0.6895	0.0558	2.211
312	79	9	110.	162.	148.	4652.1		1.0		9.5		9.5	25843.1	2528.0	32891.0	1201.9	0.282820.	4246	70.5030	0.6895	0.0557	2.234
312	79	10	110.	277.	70.	9762.9		146.2		31.1	11.4		219.7	11134.7	26302.0	29619.0	621.9	0	0.316420.	4246	70.5030	0.8636	0.0584	2.254
312	79	11	111.	1261.	101.	6724.8		1.0		13.1		1.0	368.6	2256.9	26302.0	29619.0	606.2	0	0.316420.	4246	70.5030	0.8592	0.0552	2.275
312	79	12	111.	709.	95.		1.0		1.0	16.2		2.7	1.0	26302.0	29619.0	591.8	0.316420.	4246	70.5030	0.8519	0.0480	2.299	
312	80	1	114.	326.	140.	1195.3		1.0		15.1		1.0	25242.3	731.7	29619.0	588.7	0	0.316420.	4246	70.5030	0.8542	0.0537	2.333	
312	80	2	111.	558.	154.	4780.		1.0		42.0	846.2		13360.3	731.7	29619.0	599.2	0	0.316420.	4246	70.5030	0.8509	0.0487	2.365	
312	80	3	110.	355.	132.	3575.		1.0		10.1	601.4		10954.5	731.7	29619.0	608.1	0	0.316420.	4246	70.5030	0.8408	0.0477	2.399	
312	80	4	108.	391.	135.		1.0		34.2	10.1	812.4		14912.3	226.3	29619.0	612.9	0	0.316420.	4246	70.5030	0.8391	0.0452	2.426	
312	80	5	107.	156.	125.		1.0		1.0	10.1	812.4		4921.1	226.3	29619.0	618.0	0	0.316420.	4246	70.5030	0.8384	0.0516	2.451	
312	80	6	107.	268.	128.		1.0		1.0	9.4	486.1		4297.8	226.3	29619.0	632.3	0	0.316420.	4246	70.5030	0.8352	0.0655	2.478	
312	80	7	101.	132.	144.	912.2		1.0		13.0		1.0	4297.8	454.7	29619.0	639.2	0	0.316420.	4246	70.5030	0.8285	0.0727	2.480	
312	80	8	100.	188.	169.	4661.8		1.0		14.7		1.0	5843.6	454.7	29619.0	621.0	0	0.316420.	4246	70.5030	0.8231	0.0585	2.496	
312	80	9	97.	433.	171.		1.0		14.8	3123.6		1.0	2497.1	454.7	29619.0	625.1	0	0.316420.	4246	70.5030	0.8156	0.0631	2.519	
313	79	8	81.	153.	167.	10367.8		154.3		13.7	2857.4		1417.8	4701.0	27235.0	1103.6	0.287928.	8743	60.8341	0.6895	0.0554	2.211
313	79	9	82.	161.	130.	6930.0		1.0		14.1	2403.8		24081.5	4701.0	27235.0	1105.5	0.287928.	8743	60.8341	0.6895	0.0553	2.234
313	79	10	80.	312.	100.	14893.3		25.5		21.5	3375.7		13540.1	2372.2	27235.0	1161.2	0.316428.	8743	60.8341	0.8437	0.0491	2.254
313	79	11	80.	763.	81.	10533.7		1.0		17.6	3504.3		2660.2	2372.2	27235.0	1162.6	0.316428.	8743	60.8341	0.8393	0.0466	2.275
313	79	12	81.	140.	98.		1.0		1.0	17.1	1476.0		1.0	2372.2	27235.0	1163.4	0.316428.	8743	60.8341	0.8322	0.0486	2.299
313	80	1	84.	233.	136.	2153.5		1.0		19.6		1.0	27354.9	256.3	27235.0	1166.6	0.316428.	8743	60.8341	0.8108	0.0498	2.332
313	80	2	82.	577.	133.	6642.4		1.0		96.8	4400.8		21284.0	256.3	27235.0	1176.1	0.316428.	8743	60.8341	0.8075	0.0503	2.365
313	80	3	81.	275.	131.	750.7		1.0		13.8	3934.5		21102.5	256.3	27235.0	1180.1	0.316428.	8743	60.8341	0.7976	0.0519	2.399
313	80	4	80.	306.	114.		1.0		44.0	13.1	4276.6		13510.4	1676.0	27235.0	1165.7	0.316428.	8743	60.8341	0.7963	0.0533	2.426
313	80	5	79.	120.	107.		1.0		1.0	15.4	4276.6		7390.1	1676.0	27235.0	1203.4	0.316428.	8743	60.8341	0.7956	0.0572	2.451
313	80	6	81.	220.	101.		1.0		1.0	14.8	4441.1		4277.8	1676.0	27235.0	1205.4	0.316428.	8743	60.8341	0.7926	0.0688	2.478
313	80	7	83.	167.	148.	1742.9		1.0		13.9		1.0	4277.8	4468.3	27235.0	1199.1	0.316428.	8743	60.8341	0.7862	0.0643	2.480
313	80	8	86.	137.	139.	8714.7		1.0		16.5		1.0	7520.1	4468.3	27235.0	1194.2	0.316428.	8743	60.8341	0.7811	0.0663	2.496
313	80	9	89.	397.	110.		1.0		7.7	2240.4		1.0	4704.1	4468.3	27235.0	1190.5	0.316428.	8743	60.8341	0.7739	0.0615	2.519
314	79	8	74.	106.	121.	5334.6		293.8		9.4		39.5	1380.5	3453.0	27966.0	986.4	0.255112.	1939	61.9395	0.6895	0.0539	2.211
314	79	9	74.	181.	96.	3125.4		50.8		4.8	1437.1		69.8	3453.0	27966.0	958.3	0.255112.	1939	61.9395	0.6895	0.0534	2.234

313	80	5	82.	211.	133.	8642.4		1.0		17.8		1.0	4330.8	11284.0	2363.3	27235.0	1196.6	0.316428.8743		60.8341	0.8106	0.0494	2.333
313	80	4	82.	277.	135.	8645.4		1.0		96.8	4430.8	11284.0	2363.3	27235.0	1176.1	0.316428.8743		60.8341	0.8075	0.0503	2.365
313	80	3	81.	275.	131.	650	4.6	1.0		13.6	3934.5	21182.5	2363.3	27235.0	1180.1	0.316428.8743		60.8341	0.7976	0.0519	2.399
313	80	4	80.	306.	114.		1.0	1.0	44.	13.1	4276.6	13510.8	1676.0	27235.0	1185.7	0.316428.8743		60.8341	0.7963	0.0533	2.426
313	80	5	79.	120.	107.		1.0	1.0		15.4	4276.6	7390.1	1676.0	27235.0	1203.4	0.316428.8743		60.8341	0.7956	0.0572	2.451
313	80	6	81.	269.	101.		1.0	1.0		14.8	444	4277.6	1676.0	27235.0	1205.4	0.316428.8743		60.8341	0.7926	0.0668	2.478
313	80	7	83.	157.	188.	1742.	9	1.0		14.9		6577.8	4468.3	27235.0	1199.1	0.316428.8743		60.8341	0.7862	0.0643	2.480
313	80	8	86.	125.	129.	8714.	7	1.0		18.5		7520.1	4468.3	27235.0	1194.2	0.316428.8743		60.8341	0.7811	0.0663	2.496
313	80	9	89.	397.	110.		1.0	7.7	2240.4		1.0	4704.1	4468.3	27235.0	1190.5	0.316428.8743		60.8341	0.7739	0.0615	2.519
314	79	8	74.	106.	121.	5334.	6	293.8		9.4	39.5	1380.5	3453.0	27966.0	946.4	0.255112.1939		61.9395	0.6895	0.0530	2.211
314	79	9	78.	38.	107.	5693.	4	1.0	1437.	1	29.6	34922.3	3453.0	27966.0	954.3	0.255112.1939		61.9395	0.6895	0.0534	2.234
314	79	10	76.	154.	78.	13125.	7	366.0	3787.	2	199.8	16247.5	2461.3	27966.0	959.1	0.316412.1939		61.9395	0.8471	0.0540	2.254
314	79	11	75.	615.	72.	8859.	7	1.0		11.8	35.9	3624.2	2461.3	27966.0	955.2	0.316412.1939		61.9395	0.8428	0.0539	2.275
314	79	12	76.	75.	71.		1.0	1.0		11.5	10.9	1.0	2461.3	27966.0	953.6	0.316412.1939		61.9395	0.8356	0.0547	2.299
314	80	1	76.	234.	98.	1951.	8	1.0		14.7	1.0	44356.6	2467.7	27966.0	940.6	0.316412.1939		61.9395	0.8389	0.0613	2.333
314	80	2	77.	247.	112.	7020.	2	1.0	102.	0	748.1	20812.7	2467.7	27966.0	937.4	0.316412.1939		61.9395	0.8357	0.0586	2.365
314	80	3	75.	254.	98.	5886.	6	1.0		10.9	539.5	27668.5	2467.7	27966.0	944.3	0.316412.1939		61.9395	0.8255	0.0590	2.399
314	80	4	79.	222.	91.		2.2	82.6		13.9	721.0	20108.9	2415.3	27966.0	943.5	0.316412.1939		61.9395	0.8241	0.0571	2.426
314	80	5	83.	100.	91.		3.9	1.0		11.7	721.0	10497.1	2415.3	27966.0	955.5	0.316412.1939		61.9395	0.8233	0.0648	2.451
314	80	6	82.	190.	127.		1.0	1.0		13.3	449.3	5821.3	2415.3	27966.0	960.9	0.316412.1939		61.9395	0.8203	0.0761	2.478
314	80	7	80.	108.	140.	1525.	5	1.0		13.3		5421.3	1100.7	27966.0	962.6	0.316412.1939		61.9395	0.8136	0.0796	2.480
314	80	8	74.	118.	125.	8165.	5	1.0		14.1		8123.0	1100.7	27966.0	958.0	0.316412.1939		61.9395	0.8084	0.0685	2.496
314	80	9	73.	353.	146.		1.0	9.8	4295.7		1.0	5335.0	1100.7	27966.0	969.5	0.316412.1939		61.9395	0.8019	0.0645	2.519
315	79	8	70.	169.	182.	6115.	0	297.		16.9	628.3	1582.6	1626.0	37453.0	2747.9	0.262928.1922		45.1959	0.6895	0.0467	2.211
315	79	9	74.	196.	157.	7596.	3	1.0	1938.	6	471.2	31089.9	3627.6	37453.0	2721.6	0.262928.1922		45.1959	0.6895	0.0471	2.234
315	79	10	73.	266.	109.	18498.	3	612.7	3162.	3	732.3	19787.2	1716.0	37453.0	2696.2	0.316428.1922		45.1959	1.0719	0.0451	2.254
315	79	11	77.	1134.	104.	12712.	2	1.0		19.6	1068.3	4616.7	1716.0	37453.0	2686.6	0.316428.1922		45.1959	1.0668	0.0438	2.275
315	79	12	78.	1688.	98.		2.0	1.0		19.9	173.5	1.0	1716.0	37453.0	2701.8	0.316428.1922		45.1959	1.0573	0.0479	2.299
315	80	1	82.	342.	81.	3427.	4	1.0		19.5		1.0	43530.8	2446.7	37453.0	2682.7	0.316428.1922		45.1959	1.0311	0.0580	2.333
315	80	2	83.	248.	84.	13260.	1	1.0		14.5	1311.8	23358.1	2446.7	37453.0	2683.0	0.316428.1922		45.1959	1.0271	0.0552	2.365
315	80	3	84.	388.	103.	10013.	1	1.0		19.5	866.1	32286.9	2446.7	37453.0	2716.1	0.316428.1922		45.1959	1.0146	0.0559	2.399
315	80	4	84.	309.	98.	84.	9	109.6		19.7	1284.0	25515.6	2517.0	37453.0	2732.0	0.316428.1922		45.1959	1.0129	0.0546	2.426
315	80	5	81.	119.	115.	177.	6	1.0		15.5	1284.0	11124.2	2517.0	37453.0	2765.6	0.316428.1922		45.1959	1.0120	0.0604	2.451
315	80	6	81.	219.	112.	16.	9	1.0		19.5	595.2	7115.1	2517.0	37453.0	2817.9	0.316428.1922		45.1959	1.0082	0.0741	2.478
315	80	7	83.	150.	160.	2302.	8	1.0		20.4		7115.1	1852.7	37453.0	2818.0	0.316428.1922		45.1959	1.0000	0.0813	2.480
315	80	8	82.	238.	169.	11306.	3	1.0		22.3		9757.6	1852.7	37453.0	2786.8	0.316428.1922		45.1959	0.9936	0.0698	2.496
315	80	9	80.	429.	208.	64.	2	24.5	3301.	4	1.0	6319.6	1852.7	37453.0	2764.6	0.316428.1922		45.1959	0.9845	0.0657	2.519
347	79	8	65.	121.	131.	6730.	6	249.5		10.9	1937.1	1034.8	2878.0	27351.0	1371.3	0.255137.6667		30.8278	0.6895	0.0535	2.211
347	79	9	68.	122.	93.	6295.	5	1.0	1295.	6	1796.9	25767.3	2878.0	27351.0	1388.0	0.255137.6667		30.8278	0.6895	0.0528	2.234
347	79	10	69.	258.	57.	14135.	8	226.1	2845.	9	2241.6	16737.6	1476.3	27242.0	1384.1	0.316437.6667		30.8278	0.9959	0.0535	2.254
347	79	11	69.	863.	77.	9624.	6	1.0		15.7	2881.9	3458.1	1476.3	27242.0	1368.6	0.316437.6667		30.8278	0.9908	0.0593	2.275
347	79	12	67.	1574.	66.		1.0	1.0		12.9	61.9	1.0	1476.3	27242.0	1372.8	0.316437.6667		30.8278	0.9824	0.0602	2.299
347	80	1	65.	238.	108.	1589.	6	1.0		14.1		1.0	33664.8	1022.0	27242.0	1357.7	0.316437.6667		30.8278	0.9630	0.0653	2.333
347	80	2	64.	225.	108.	6391.	5	1.0	1303.	9	3594.6	13235.4	1022.0	27242.0	1369.4	0.316437.6667		30.8278	0.9593	0.0669	2.365
347	80	3	66.	248.	90.	4602.	8	1.0		8.4	3126.3	21091.1	1022.0	27242.0	1386.3	0.316437.6667		30.8278	0.9476	0.0615	2.399
347	80	4	65.	239.	74.		1.5	70.1		11.8	3596.0	16043.0	1065.7	27242.0	1505.3	0.316437.6667		30.8278	0.9460	0.0457	2.426
347	80	5	64.	117.	82.		1.5	1.0		10.9	3572.3	8131.1	1065.7	27242.0	1419.4	0.316437.6667		30.8278	0.9451	0.0655	2.451
347	80	6	63.	227.	103.		1.0	1.0		9.8	3713.2	4142.2	1065.7	27242.0	1431.3	0.316437.6667		30.8278	0.9416	0.0815	2.478
347	80	7	62.	163.	98.	961.	2	1.0		9.4		4142.2	662.3	27242.0	1434.1	0.316437.6667		30.8278	0.9340	0.0757	2.480
347	80	8	61.	117.	111.	4805.	8	1.0		12.6		6414.0	662.3	27242.0	1418.5	0.316437.6667		30.8278	0.9280	0.0704	2.496
347	80	9	62.	334.	118.		1.0	10.6	3154.	3	1.0	3710.5	662.3	27242.0	1827.0	0.316437.6667		30.8278	0.9195	0.0650	2.519
348	79	8	96.	153.	165.	12369.	6	12.	1	15.7	1428.0	2078.9	2224.0	31224.0	1328.1	0.282816.3996		89.5815	0.6895	0.0561	2.211
348	79	9	85.	171.	152.	9346.	9	1.0	1229.	9	1428.0	49128.2	2229.0	31224.0	1315.7	0.282816.3996		89.5815	0.6895	0.0566	2.234
348	79	10	87.	181.	105.	20504.	0	41.0	4845.	9	1396.9	21019.5	4774.0	31224.0	1899.3	0.316416.3996		89.5815	1.0261	0.0581	2.254
348	79	11	88.	882.	105.	13075.	3	1.0		19.2	1606.2	3968.9	4774.0	31224.0	1858.7	0.316416.3996		89.5815	1.0208	0.0542	2.275
348	79	12	88.	156.	91.		1.0	1.0		19.3	581.4	1.0	4774.0	31224.0	1903.8	0.316416.3996		89.5815	1.0121	0.0488	2.299
348	80	1	88.	395.	142.	2763.	3	1.0		18.7		1.0	50281.5	1045.0	31224.0	1900.6	0.316416.3996		89.5815	0.9892	0.0533	2.333
348	80	2	87.	256.	146.	11054.	5	1.0		59.8	2645.7	22620.0	1045.0	31224.0	1928.7	0.316416.3996		89.5815	0.9854	0.0482	2.365
348	80	3	90.	285.	119.	827	0	1.0		17.0	2372.9	31741.2	1045.0	31224.0	1956.3	0.316416.3996		89.5815	0.9734	0.0463	2.399
348	80	4	87.	537.	127.		1.0	60.1		18.4	2609.9	25968.3	307.0	31224.0	1964.9	0.316416.3996		89.5815	0.9717	0.0460	2.426
348	80	5	87.	102.	141.		1.0	1.0		16.7	2558.7	8457.0	307.0	31224.0	1962.0	0.316416.3996		89.5815	0.9708	0.0511	2.451
348	80	6	85.	255.	96.		1.0	465.0		17.5	2535.6	8184.4	307.0	31224.0	1998.8	0.316416.3996		89.5815	0.9672	0.0621	2.478
348	80	7	82.	133.	159.	1972.	5	1.0		18.0		8184.4	2352.0	31224.0	2017.7	0.316416.3996		89.5815	0.9593	0.0687	2.480
348	80	8	87.	241.	150.	9862.	5	1.0		17.6		10482.9	2352.0	31224.0	1982.7	0.316416.3996		89.5815	0.9532	0.0573	2.496
348	80	9	91.	404.	146.		1.0	25.7	1909.6		1.0	8807.1	2352.0	31224.0	1966.4	0.316416.3996		89.5815	0.9484	0.0618	2.519
407	79	8	62.	87.	99.	6661.	6	212.3		11.2	166.1	1375.3	2603.0	31959.0	1970.1	0.2183	8.3708	42.6078	0.6895	0.0548	2.211
407	79	9	66.	121.	88.	8789.	2	1.0	1586.	0	124.6	28605.8	2603.0	31959.0	1996.9	0.2183	8.3708	42.6078	0.6895	0.0541	2.234
407	79	10	68.	88.	63.	10364.	4	355.1	1412.	5	234.6	13878.6	1058.3	31959.0	2021.7	0.2309	8.3708	42.6078	0.7439	0.0558	2.254

407	79	11	69.	376.	76.	7147.8		1.0	15.7	1311.6	3387.5	2006.7	26057.0	1917.1	0.2309	8.3708	42.6078	0.7401	0.0556	2.275
407	79	12	68.	68.	66.	1.0		1.0	10.7	45.9	1.0	1058.3	31959.0	2027.0	0.2309	8.3708	42.6078	0.7336	0.0582	2.299
407	80	1	68.	166.	93.	6616.9		1.0	414.7	1.0	33621.8	800.3	31959.0	1963.0	0.2309	8.3708	42.6078	0.7307	0.0729	2.333
407	80	2	67.	189.	96.	5475.9		1.0	1533.3	492.9	15833.3	800.3	31959.0	1984.0	0.2309	8.3708	42.6078	0.7279	0.0757	2.365
407	80	3	66.	262.	96.	7236.1		1.0	11.9	337.2	23266.2	800.3	31959.0	1979.1	0.2309	8.3708	42.6078	0.7190	0.0671	2.399
407	80	4	63.	216.	75.	3934.3	71.3	1.0	12.4	472.1	15181.6	1579.3	31959.0	1973.7	0.2309	8.3708	42.6078	0.7178	0.0641	2.426
407	80	5	58.	79.	74.	1172.0		1.0	12.3	472.1	5965.9	1579.3	31959.0	1981.3	0.2309	8.3708	42.6078	0.7172	0.0660	2.451
407	80	6	58.	179.	109.	2363.3	1036.0	1.0	10.3	246.2	4824.6	1579.3	31959.0	2006.8	0.2309	8.3708	42.6078	0.7145	0.0763	2.478
407	80	7	58.	117.	122.	4783.4	742.0	1.0	12.8	1.0	4824.6	1872.3	31959.0	2007.9	0.2309	8.3708	42.6078	0.7087	0.0810	2.480
407	80	8	60.	97.	112.	5005.3		1.0	14.1	1.0	7249.0	1872.3	31959.0	2019.8	0.2309	8.3708	42.6078	0.7041	0.0788	2.496
407	80	9	61.	254.	116.	5827.2	8.4	4465.1	1.0	4978.4	1872.3	31959.0	2039.9	0.2309	8.3708	42.6078	0.6977	0.0776	2.519				
408	79	8	63.	102.	104.	10071.8	159.7	10.5	1004.5	9324.5	2100.0	24018.0	2499.5	0.262924	.0590	66.2063	0.6895	0.0455	2.211				
408	79	9	70.	133.	93.	7272.7		1.0	608.5	753.4	28331.1	2100.0	24018.0	2478.5	0.262924	.0590	66.2063	0.6895	0.0459	2.234
408	79	10	69.	166.	68.	15248.1	278.9	2024.0	677.0	11858.7	1102.7	24018.0	2478.4	0.230924	.0590	66.2063	0.9291	0.0451	2.254				
408	79	11	69.	587.	69.	12749.5		1.0	12.9	1136.6	2271.4	1102.7	24018.0	2484.4	0.230924	.0590	66.2063	0.9244	0.0473	2.275			
408	79	12	71.	135.	77.	51.2		1.0	11.7	277.4	1.0	1102.7	24018.0	2496.0	0.230924	.0590	66.2063	0.9165	0.0501	2.299			
408	80	1	71.	232.	93.	11267.8		1.0	547.2	1.0	27636.6	279.3	24018.0	2474.8	0.230924	.0590	66.2063	0.9043	0.0539	2.333			
408	80	2	72.	260.	93.	12736.6		1.0	2310.1	1098.7	16757.9	279.3	24018.0	2459.8	0.230924	.0590	66.2063	0.9008	0.0463	2.365			
408	80	3	70.	376.	76.	13894.1		1.0	14.4	737.8	18566.7	279.3	24018.0	2486.5	0.230924	.0590	66.2063	0.8898	0.0441	2.399			
408	80	4	68.	191.	79.	6055.4	62.1	13.5	103.6	14203.2	407.7	24018.0	2498.1	0.230924	.0590	66.2063	0.8863	0.0448	2.426				
408	80	5	68.	93.	62.	11298.9		1.0	12.2	103.6	5205.7	407.7	24018.0	2524.2	0.230924	.0590	66.2063	0.8875	0.0473	2.451			
408	80	6	66.	192.	69.	2485.5		1.0	13.5	481.8	4245.7	407.7	24018.0	2557.7	0.230924	.0590	66.2063	0.8841	0.0578	2.478			
408	80	7	68.	117.	100.	6402.1		1.0	15.9	1.0	4245.7	645.3	24018.0	2551.0	0.230924	.0590	66.2063	0.8770	0.0578	2.480			
408	80	8	63.	107.	79.	12216.9		1.0	10.4	1.0	6036.1	645.3	24018.0	2535.8	0.230924	.0590	66.2063	0.8713	0.0537	2.496			
408	80	9	65.	260.	88.	5703.2	13.4	2163.6	1.0	4336.1	645.3	24018.0	2533.6	0.230924	.0590	66.2063	0.8634	0.0538	2.519				
409	79	8	96.	183.	188.	9376.8	153.8	21.4	4391.8	1838.8	2761.0	44016.0	3755.2	0.242827	.1468	84.3441	0.6895	0.0551	2.211				
409	79	9	99.	280.	152.	10502.4		1.0	1285.2	4363.6	50012.6	2762.0	44016.0	3719.2	0.242827	.1468	84.3441	0.6895	0.0557	2.234			
409	79	10	100.	272.	104.	24440.3	77.1	8140.0	4506.3	22577.8	213.7	44106.0	3727.4	0.230927	.1468	84.3441	0.7510	0.0504	2.254				
409	79	11	101.	1538.	105.	21025.7		1.0	28.6	5122.8	531.1	213.7	44106.0	3758.4	0.230927	.1468	84.3441	0.7472	0.0523	2.275			
409	79	12	96.	210.	29.	1090.6		1.0	29.8	1709.8	1.0	213.7	44102.0	3741.2	0.230927	.1468	84.3441	0.7405	0.0545	2.299			
409	80	1	95.	512.	73.	26704.0		1.0	847.9	1.0	49223.6	92.7	44106.0	3749.5	0.230927	.1468	84.3441	0.7132	0.0560	2.333			
409	80	2	94.	574.	72.	27829.4		1.0	3833.4	7374.3	27199.2	92.7	44106.0	3746.6	0.230927	.1468	84.3441	0.7104	0.0544	2.365			
409	80	3	92.	725.	66.	27480.9		1.0	21.1	6079.6	350335.6	92.7	44106.0	3726.9	0.230927	.1468	84.3441	0.7016	0.0550	2.399			
409	80	4	93.	438.	58.	12810.5	45.7	22.1	7216.4	25001.5	397.7	44106.0	3786.0	0.230927	.1468	84.3441	0.7006	0.0505	2.426				
409	80	5	88.	195.	57.	26438.4		1.0	23.9	7116.1	9685.0	397.7	44106.0	3799.9	0.230927	.1468	84.3441	0.6999	0.0513	2.451			
409	80	6	85.	413.	181.	7344.3		1.0	26.3	7119.3	8092.3	397.7	44106.0	3864.1	0.230927	.1468	84.3441	0.6973	0.0601	2.478			
409	80	7	87.	251.	211.	16210.6		1.0	22.8	1.0	8092.3	69.7	44106.0	3896.1	0.230927	.1468	84.3441	0.6911	0.0571	2.480			
409	80	8	86.	199.	241.	15396.1		1.0	29.3	1.0	10765.1	69.7	44106.0	3862.1	0.230927	.1468	84.3441	0.6872	0.0534	2.496			
409	80	9	88.	529.	221.	17118.5	27.2	5453.9	1.0	8098.4	69.7	44106.0	3843.1	0.230927	.1468	84.3441	0.6809	0.0517	2.519				
417	79	8	78.	121.	136.	8447.8	165.7	14.2	1734.9	14220.6	3124.0	44458.0	2062.0	0.240411	.5818	85.1084	0.6895	0.0670	2.211				
417	79	9	77.	127.	90.	8307.5		1.0	1334.9	1228.4	44287.6	3125.0	44458.0	2040.4	0.240411	.5818	85.1084	0.6895	0.0677	2.234			
417	79	10	77.	116.	98.	19981.8	866.4	4189.3	1335.7	24113.4	3564.3	44458.0	2053.2	0.230911	.5818	85.1084	0.5948	0.0588	2.254				
417	79	11	82.	660.	109.	13689.8		1.0	14.9	1579.2	4647.7	3564.3	44458.0	2052.1	0.230911	.5818	85.1084	0.5917	0.0532	2.275			
417	79	12	83.	110.	92.	1.0		1.0	17.1	502.6	1.0	3564.3	44458.0	2068.6	0.230911	.5818	85.1084	0.5867	0.0552	2.299			
417	80	1	82.	297.	144.	2805.4		1.0	18.5	1.0	50022.6	4133.7	44458.0	2016.2	0.230911	.5818	85.1084	0.6337	0.0709	2.333			
417	80	2	81.	268.	138.	11220.3		1.0	424.8	2424.2	23431.9	4133.7	44458.0	2000.3	0.230911	.5818	85.1084	0.6315	0.0706	2.365			
417	80	3	81.	238.	132.	8396.5		1.0	15.9	2055.9	34323.5	4133.7	44458.0	1985.2	0.230911	.5818	85.1084	0.6235	0.0667	2.399			
417	80	4	81.	276.	108.	1.0	44.8	17.6	3355.3	25090.5	4087.7	44458.0	1998.5	0.230911	.5818	85.1084	0.6225	0.0773	2.426				
417	80	5	83.	79.	108.	1.0		1.0	16.5	2406.3	9731.3	4087.7	44458.0	2020.3	0.230911	.5818	85.1084	0.6219	0.0915	2.451			
417	80	6	84.	193.	160.	1.0		1.0	16.2	2304.5	6532.2	4087.7	44458.0	2062.8	0.230911	.5818	85.1084	0.6195	0.0984	2.478			
417	80	7	85.	739.	246.	21060.0		1.0	14.6	1.0	6532.2	3377.0	44458.0	2102.9	0.230911	.5818	85.1084	0.6185	0.1071	2.480			
417	80	8	85.	442.	217.	11641.6		1.0	18.9	1.0	7922.3	3377.0	44458.0	2087.0	0.230911	.5818	85.1084	0.6106	0.0941	2.496			
417	80	9	87.	309.	216.	1.0	15.1	5258.0	1.0	6983.1	3377.0	44458.0	2072.3	0.230911	.5818	85.1084	0.6050	0.0938	2.519				
418	79	8	106.	124.	174.	17020.6	242.2	16.8	396.8	2233.5	2033.0	43625.0	1695.8	0.2024	9.3108	75.7637	0.6895	0.0634	2.211				
418	79	9	110.	135.	127.	10411.7		1.0	1595.9	297.6	45077.1	2033.0	43625.0	1688.3	0.2024	9.3108	75.7637	0.6895	0.0637	2.234			
418	79	10	108.	88.	85.	21183.8		1.0	1283.2	525.6	22915.1	2011.9	43625.0	1708.1	0.1988	9.3108	75.7637	0.6895	0.0603	2.254			

417	XX	9	87.	389.	216.		1.0		15.1	5258.0		1.0	6985.1	5577.0	44058.0	2872.5	0.2309	9.3108	75.7637	0.6553	0.0459	2.275								
418	79	8	106.	124.	174.	17020.6		242.2		16.8	396.8	2233.5	2033.0	43625.0	1695.4	0.2024	9.3108	75.7637	0.6895	0.0634	2.211								
418	79	9	110.	135.	127.	10411.7			1.0	1595.9	297.6	4507.7	2033.0	43625.0	1688.3	0.2024	9.3108	72.7637	0.6895	0.0637	2.234								
418	79	10	108.	82.	85.	5118.8		94.2		1.0	326.9	2215.7	2033.0	43625.0	1704.1	0.2309	9.3108	75.7637	0.6502	0.0519	2.258								
418	79	11	107.	763.	117.	13100.8			1.0	18.4	737.1	4510.3	2013.7	43625.0	1705.4	0.2309	9.3108	75.7637	0.6553	0.0459	2.275								
418	79	12	109.	135.	110.		1.0			14.8	109.6		2013.7	43625.0	1716.3	0.2309	9.3108	75.7637	0.6497	0.0463	2.299								
418	80	1	108.	209.	164.	3614.5			1.0	169.9		5229.8	1421.0	43625.0	1661.2	0.2309	9.3108	75.7637	0.6606	0.0548	2.333								
418	80	2	98.	363.	161.	10546.9			1.0	1955.1	1194.7	20179.0	1421.0	43625.0	1655.6	0.2309	9.3108	75.7637	0.6581	0.0548	2.365								
418	80	3	98.	405.	191.	8665.2			1.0	16.7	839.2	5691.1	1421.0	43625.0	1632.7	0.2309	9.3108	75.7637	0.6500	0.0555	2.399								
418	80	4	93.	288.	130.	769.8		53.0		19.9	1133.8	24464.6	1878.3	43625.0	1639.9	0.2309	9.3108	75.7637	0.6489	0.0610	2.426								
418	80	5	94.	98.	156.	1500.6			1.0	19.0	1133.8	12314.7	1878.3	43625.0	1657.2	0.2309	9.3108	75.7637	0.6483	0.0694	2.451								
418	80	6	95.	251.	196.	351.0			1.0	21.4	700.0	7025.1	1878.3	43625.0	1692.8	0.2309	9.3108	75.7637	0.6459	0.0762	2.478								
418	80	7	97.	173.	236.	3123.6			1.0	18.9		7025.1	2840.7	43625.0	1711.5	0.2309	9.3108	75.7637	0.6407	0.0794	2.480								
418	80	8	98.	210.	533.	13031.6			1.0	23.2		10561.0	2840.7	43625.0	1706.5	0.2309	9.3108	75.7637	0.6366	0.0732	2.496								
418	80	9	102.	584.	210.	1008.0		15.1		6191.8		1.0	7647.7	2840.7	43625.0	1707.0	0.2309	9.3108	75.7637	0.6307	0.0720	2.519								
420	79	8	77.	93.	131.	12233.9		156.5		13.4	763.9	1830.7	3573.0	366170.0	1207.6	0.2158	5.9715	59.7441	0.6895	0.0616	2.211								
420	79	9	77.	118.	92.	6324.8			1.0	1720.1	536.2	13759.5	3573.0	366170.0	1128.7	0.2158	5.9715	59.7441	0.6895	0.0659	2.234								
420	79	10	83.	91.	86.	6428.0		605.7		898.7	535.2	10781.7		366170.0	1209.2	0.2309	5.9715	59.7441	0.6202	0.0709	2.258								
420	79	11	90.	664.	93.	2123.3			1.0	14.3	629.9	3922.9		366170.0	1211.6	0.2309	5.9715	59.7441	0.6170	0.0624	2.275								
420	79	12	90.	205.	117.	324.4			1.0	12.7	210.9			366170.0	1203.1	0.2309	5.9715	59.7441	0.6118	0.0610	2.299								
420	80	1	88.	295.	155.	3748.8			1.0	73.6		5258.7	432.0	366170.0	1208.5	0.2309	5.9715	59.7441	0.6017	0.0773	2.333								
420	80	2	85.	507.	146.	2922.5			1.0	28.1	252.2	5220.7	432.0	366170.0	1209.2	0.2309	5.9715	59.7441	0.5993	0.0757	2.365								
420	80	3	77.	280.	111.	5066.1			1.0	10.7	139.5	5220.7		366170.0	1205.0	0.2309	5.9715	59.7441	0.5920	0.0756	2.399								
420	80	4	78.	195.	116.	1294.9		33.5		14.8	243.9	17308.5		366170.0	1196.7	0.2309	5.9715	59.7441	0.5910	0.0647	2.426								
420	80	5	77.	81.	101.	3566.5			1.0	15.2	243.9	7388.5		366170.0	1192.0	0.2309	5.9715	59.7441	0.5905	0.0711	2.451								
420	80	6	75.	165.	127.	10.5			1.0	15.0		5957.4		366170.0	1221.0	0.2309	5.9715	59.7441	0.5883	0.0818	2.478								
420	80	7	76.	115.	169.	176.5			1.0	14.8		5957.4	447.3	366170.0	1253.9	0.2309	5.9715	59.7441	0.5835	0.0914	2.480								
420	80	8	77.	127.	163.	522.2			1.0	14.6		6192.2	447.3	366170.0	1220.4	0.2309	5.9715	59.7441	0.5798	0.0830	2.496								
420	80	9	81.	263.	166.	21.3		0.0		3857.6		1.0	6069.5	447.3	366170.0	1213.7	0.2309	5.9715	59.7441	0.5784	0.0818	2.519								
422	79	8	140.	162.	257.	19695.8		270.5		21.2	3678.5	2029.5	4458.0	71462.0	4317.1	0.1994	12.7247	85.8355	0.6895	0.0752	2.211								
422	79	9	142.	205.	321.	12393.5			1.0	2080.5	3513.6	14648.5	4458.0	71462.0	4827.4	0.1994	12.7247	85.8355	0.6895	0.0673	2.234								
422	79	10	136.	202.	169.	13593.5		1432.1		7400.5	3665.4	35896.5	5704.3	71462.0	4343.0	0.2309	12.7247	85.8355	0.5240	0.0725	2.258								
422	79	11	143.	1143.	226.	22129.0			1.0	28.4	4242.4	6836.2	5704.3	71462.0	4369.4	0.2309	12.7247	85.8355	0.5213	0.0740	2.275								
422	79	12	138.	158.	199.		1.0			26.3	1617.4		5704.3	71462.0	4322.9	0.2309	12.7247	85.8355	0.5169	0.0852	2.299								
422	80	1	139.	505.	274.	3695.6			1.0	39.7		7750.1	4256.0	71462.0	4265.7	0.2309	12.7247	85.8355	0.5670	0.1026	2.333								
422	80	2	138.	590.	268.	14799.5			1.0	49.8	5891.6	25464.5	4256.0	71462.0	4207.0	0.2309	12.7247	85.8355	0.5648	0.1121	2.365								
422	80	3	135.	436.	199.	11113.5			1.0	25.7	4420.6	21122.5	4256.0	71462.0	4236.6	0.2309	12.7247	85.8355	0.5560	0.1096	2.399								
422	80	4	131.	556.	207.		1.0	35.0		27.6	5782.2	40882.8	5254.7	71462.0	4233.3	0.2309	12.7247	85.8355	0.5570	0.1236	2.426								
422	80	5	127.	167.	181.		1.0			28.0	5785.5	17362.2	5254.7	71462.0	4237.6	0.2309	12.7247	85.8355	0.5565	0.1405	2.451								
422	80	6	131.	379.	265.		1.0			56.5	6128.8	11561.2	5254.7	71462.0	4413.2	0.2309	12.7247	85.8355	0.5588	0.1404	2.478								
422	80	7	136.	2211.	331.	16580.6		92.0		26.2		11561.2	4500.7	71462.0	4317.4	0.2309	12.7247	85.8355	0.5499	0.1410	2.480								
422	80	8	137.	2211.	331.	16580.6			1.0	26.2		13599.6	4500.7	71462.0	4360.4	0.2309	12.7247	85.8355	0.5468	0.1252	2.496								
422	80	9	144.	605.	366.		1.0	43.1		8588.3		1.0	11603.1	4500.7	71462.0	4318.4	0.2309	12.7247	85.8355	0.5414	0.1165	2.519								
423	79	8	71.	63.	82.	6226.5		139.7		7.3		1.0	1413.0	3254.0	27018.0	920.5	0.1994	7.7871	66.1493	0.6895	0.0613	2.211								
423	79	9	76.	77.	63.	5585.6			1.0	810.7		1.0	28590.7	3254.0	27018.0	911.9	0.1994	7.7871	66.1493	0.6895	0.0618	2.234								
423	79	10	77.	75.	75.	12658.0		368.8		2453.1	158.9	12601.0	205.7	27018.0	1041.0	0.2309	7.7871	66.1493	0.6457	0.0569	2.258								
423	79	11	79.	394.	48.	13349.1			1.0	9.4	289.8	2758.1	205.7	27018.0	1044.6	0.2309	7.7871	66.1493	0.6428	0.0589	2.275								
423	79	12	74.	69.	79.		1.0			8.4		1.0	205.7	27018.0	1057.8	0.2309	7.7871	66.1493	0.6378	0.0750	2.298								
423	80	1	73.	163.	83.	13274.6			1.0	514.6		34613.6	1065.3	27018.0	1049.8	0.2309	7.7871	66.1493	0.6415	0.0823	2.333								
423	80	2	71.	236.	98.	12078.8			1.0	4039.6	725.1	14114.8	1065.3	27018.0	1053.3	0.2309	7.7871	66.1493	0.6390	0.0834	2.365								
423	80	3	69.	265.	87.	12967.2			1.0	6.5	537.9	25664.2	1065.3	27018.0	1058.5	0.2309	7.7871	66.1493	0.6302	0.0827	2.399								
423	80	4	70.	215.	104.	7037.0		30.5		9.6	698.7	18703.2	752.8	27018.0	1058.7	0.2309	7.7871	66.1493	0.6312	0.0812	2.426								
423	80	5	76.	64.	61.	19481.3			1.0	6.6	698.7	9256.6	752.8	27018.0	1080.6	0.2309	7.7871	66.1493	0.6296	0.0911	2.451								
423	80	6	68.	146.	121.	2616.4			1.0	9.8	482.8	5185.1	752.8	27018.0	1084.6	0.2309	7.7871	66.1493	0.6272	0.1022	2.478								
423	80	7	71.	78.	120.	2359.8			1.0	9.1		5185.1	908.0	27018.0	1071.8	0.2309	7.7871	66.1493	0.6222	0.0979	2.480								
423	80	8	69.	78.	126.	5370.4			1.0	9.8		6624.6	908.0	27018.0	1062.4	0.2309	7.7871	66.1493	0.6185	0.0947	2.496								
423	80	9	67.	189.	122.	3322.4		4.1		2402.7		1.0	5339.5	908.0	27018.0	1059.6	0.2309	7.7871	66.1493	0.6125	0.0848	2.519								
521	79	8	91.	157.	120.	15905.9		157.1		18.1	5708.4	2043.6	639.0	65344.0	3907.8	0.1395	19.0544	94.4365	0.6895	0.0463	2.211								
521	79	9	94.	232.	93.	4497.2			1.0	1345.2	5394.1	6777.5	639.0	65344.0	3875.9	0.1395	19.0544	94.4365	0.6895	0.0466	2.234								
521	79	10	94.	111.	80.	6360.9		1432.8		104.9	1697.4	35120.4	2578.7	65344.0	3909.3	0.	0.1968	19.0544	94.4365	0.6898	0.0553	2.258								

407	80	4	67.	184.	140.	88.	[illegible]																						
407	80	5	68.	262.	86.	1[illegible]																							
521	79	11	101.	681.	101.	857.5		1.0		19.2	2148.8	6837.3	2878.7	65344.0	3925.1	0.1	9[illegible]	0.0583	94.4365	0.6865	0.0541	2.275
521	79	12	98.	140.	94.		1.0	1.0		22.2	398.0	1.0	2878.7	65344.0	3979.3	0.	196819.	0.0544	94.4365	0.6805	0.0595	2.299
521	80	1	104.	366.	158.	27.		1.0		16.6		1.0	72266.5	2116.0	65344.0	3898.5	0.	196819.	0.0544	94.4365	0.6840	0.0651	2.333
521	80	2	105.	615.	152.	108.	0	1.0		3224.4	2040.3	35649.4	2116.0	65344.0	3894.2	0.	196819.	0.0544	94.4365	0.6813	0.0646	2.365
521	80	3	110.	449.	105.	81.	0	1.0		16.1	1114.3	48662.0	2116.0	65344.0	3807.7	0.	196819.	0.0544	94.4365	0.6730	0.0690	2.399
521	80	4	113.	480.	119.		1.0	3[illegible]		19.5	1883.2	32987.4	2036.3	65344.0	3805.7	0.	196819.	0.0544	94.4365	0.6719	0.0689	2.426
521	80	5	114.	179.	126.		1.0			19.5	1883.2	13542.0	2036.3	65344.0	3826.8	0.	196819.	0.0544	94.4365	0.6713	0.0724	2.451
521	80	6	111.	311.	157.		1.0			19.8	802.9	9015.6	2036.3	65344.0	3886.0	0.	196819.	0.0544	94.4365	0.6808	0.0905	2.478
521	80	7	106.	195.	234.	118.	2	1.0		22.6		9015.6	5612.7	65344.0	3939.4	0.	196819.	0.0544	94.4365	0.6633	0.0903	2.480
521	80	8	109.	165.	175.	69.	1	1.0		19.1		11821.5	5612.7	65344.0	3845.8	0.	196819.	0.0544	94.4365	0.6591	0.0840	2.496
521	80	9	116.	534.	123.		1.0	45.2	6543.2		1.0	9489.5	5612.7	65344.0	3818.0	0.	196819.	0.0544	94.4365	0.6530	0.0850	2.519
524	79	8	84.	105.	182.	6895.6		254.5		11.7	1910.9	1467.0	1846.0	35890.0	1272.7	0.	207310.	0.7503	54.3630	0.6895	0.0561	2.211
524	79	9	85.	188.	95.	7722.4		1.0	1613.6		1765.1	37089.0	1846.0	35890.0	1551.8	0.	207310.	0.7503	54.3630	0.6895	0.0570	2.234
524	79	10	86.	150.	86.	17609.2		530.9	5960.0		1862.6	16319.2	3102.3	36484.0	1249.6	0.	196810.	0.7503	54.3630	0.6529	0.0592	2.254
524	79	11	86.	921.	107.	15603.3		1.0		17.2	2032.5	3991.0	3102.3	36484.0	1236.5	0.	196810.	0.7503	54.3630	0.6495	0.0581	2.275
524	79	12	82.	138.	110.		1.5	1.0		15.6	800.5		3102.3	36484.0	1249.5	0.	196810.	0.7503	54.3630	0.6440	0.0626	2.299
524	80	1	82.	303.	143.	16679.4		1.0	1064.2		1.0	4695.1	5330.7	36484.0	1244.5	0.	196810.	0.7503	54.3630	0.6714	0.0694	2.333
524	80	2	80.	645.	136.	17006.5		1.0	10495.3	2480.2	1.0	19235.5	5330.7	36484.0	1544.5	0.	196810.	0.7503	54.3630	0.6688	0.0694	2.365
524	80	3	81.	461.	102.	19406.8		1.0		13.8	2237.5	30061.2	5330.7	36484.0	1239.7	0.	196810.	0.7503	54.3630	0.6607	0.0763	2.399
524	80	4	80.	330.	121.	11279.8		87.4		17.8	2422.4	20341.6	1439.7	36484.0	1242.0	0.	196810.	0.7503	54.3630	0.6595	0.0716	2.426
524	80	5	84.	138.	87.	25435.5		1.0		16.2	2483.4	6926.5	1439.7	36484.0	1255.8	0.	196810.	0.7503	54.3630	0.6589	0.0760	2.451
524	80	6	85.	205.	149.	3370.8		1.0		15.4	2641.3	6731.6	1439.7	36484.0	1279.0	0.	196810.	0.7503	54.3630	0.6565	0.0932	2.478
524	80	7	86.	93.	144.	6934.5		1.0		17.0		6731.6	8385.0	36484.0	1281.5	0.	196810.	0.7503	54.3630	0.6511	0.0903	2.480
524	80	8	81.	163.	166.	8673.3		1.0		17.3		9132.1	8385.0	36484.0	1260.7	0.	196810.	0.7503	54.3630	0.6470	0.0866	2.496
524	80	9	83.	283.	183.	7128.1		22.5	6634.3		1.0	6268.2	8385.0	36484.0	1241.7	0.	196810.	0.7503	54.3630	0.6410	0.0835	2.519
527	79	8	64.	78.	113.	10352.7		250.3		8.9	1838.8	1584.0	8601.0	31911.0	2039.0	0.	2019.	7.1203	45.8279	0.6895	0.0389	2.211
527	79	9	69.	72.	77.	8767.7		1.0	1865.9		1732.8	34544.9	8601.0	31911.0	2039.2	0.	2019.	7.1203	45.8279	0.6895	0.0389	2.234
527	79	10	69.	132.	53.	20150.2		335.9	5019.7		1297.7	16761.3	2231.7	31911.0	2036.1	0.	1968.	7.1203	45.8279	0.6619	0.0341	2.254
527	79	11	72.	497.	58.	13415.7		1.0		11.6	1420.4	3762.8	2231.7	31911.0	2037.6	0.	1968.	7.1203	45.8279	0.6565	0.0348	2.275
527	79	12	74.	82.	80.	16.	1	1.0		9.5	571.2		2231.7	31911.0	2054.5	0.	1968.	7.1203	45.8279	0.6529	0.0389	2.299
527	80	1	72.	208.	105.	1721.3		1.0		29.6		44241.0	2902.3	31911.0	2004.5	0.	1968.	7.1203	45.8279	0.5240	0.0441	2.333
527	80	2	72.	526.	111.	6535.8		1.0	6802.9		1856.3	20498.6	2902.3	31911.0	2012.1	0.	1968.	7.1203	45.8279	0.6988	0.0447	2.365
527	80	3	72.	296.	74.	8923.2		1.0		10.0	1749.1	31812.0	2902.3	31911.0	2035.1	0.	1968.	7.1203	45.8279	0.6903	0.0429	2.399
527	80	4	74.	247.	76.	84.	1	88.7		10.7	1875.9	22624.9	3588.1	31911.0	2048.1	0.	1968.	7.1203	45.8279	0.6891	0.0492	2.426
527	80	5	70.	97.	82.	177.	1	1.0		9.2	1875.9	10240.5	3588.1	31911.0	2064.0	0.	1968.	7.1203	45.8279	0.6885	0.0508	2.451
527	80	6	69.	146.	131.	1[illegible]		1.0		10.5	2078.9	6645.1	3588.1	31911.0	2096.8	0.	1968.	7.1203	45.8279	0.6859	0.0580	2.478
527	80	7	74.	69.	166.	1246.7		64[illegible]		11.7		6645.1	898.7	31911.0	2078.7	0.	1968.	7.1203	45.8279	0.6803	0.0543	2.480
527	80	8	74.	137.	156.	6233.3		1.0		10.4		8061.6	898.7	31911.0	2057.8	0.	1968.	7.1203	45.8279	0.6760	0.0571	2.496
527	80	9	76.	189.	108.		1.0	10.8	4975.8		1.0	6434.0	898.7	31911.0	2052.0	0.	1968.	7.1203	45.8279	0.6698	0.0534	2.519
528	79	8	81.	72.	90.	6428.4		257.4		8.8		1069.7	704.0	39484.0	2112.4	0.	1773	1.3326	65.5680	0.6895	0.0338	2.211
528	79	9	85.	94.	62.	5978.4		1.0	1349.1		1.0	3[illegible]	704.0	39484.0	2088.0	0.	1773	1.3326	65.5680	0.6895	0.0342	2.234
528	79	10	81.	81.	60.	12965.8		408.5	5157.1		35.5	13718.9	2235.3	39484.0	2156.6	0.	1968	1.3326	65.5680	0.7396	0.0385	2.254
528	79	11	81.	546.	72.	6448.1		1.0		10.6	85.5	3309.7	2235.3	39484.0	2173.5	0.	1968	1.3326	65.5680	0.7358	0.0449	2.275
528	79	12	82.	97.	78.		1.0	1.0		8.0			2235.3	39484.0	2182.2	0.	1968	1.3326	65.5680	0.7296	0.0494	2.299
528	80	1	85.	227.	78.	1912.2		1.0		10.2		39378.3	2789.0	39484.0	2163.8	0.	1968	1.3326	65.5680	0.7298	0.0599	2.333
528	80	2	83.	628.	78.	7699.9		1.0	2391.8		102.6	15109.4	2789.0	39484.0	2183.0	0.	1968	1.3326	65.5680	0.7270	0.0604	2.365
528	80	3	82.	205.	90.	5801.0		1.0		10.1	66.0	22311.1	2789.0	39484.0	2208.0	0.	1968	1.3326	65.5680	0.7182	0.0619	2.399
528	80	4	80.	197.	61.		1.0	67.3		15.4	99.6	16552.1	2626.0	39484.0	2237.8	0.	1968	1.3326	65.5680	0.7169	0.0596	2.426
528	80	5	77.	76.	73.		1.0	1.0		12.2	99.6	5985.2	2626.0	39484.0	2267.8	0.	1968	1.3326	65.5680	0.7163	0.0553	2.451
528	80	6	76.	148.	100.		1.0	1.0		12.2		6596.2	2626.0	39484.0	2307.0	0.	1968	1.3326	65.5680	0.7136	0.0641	2.478
528	80	7	78.	86.	129.	1776.0		1.0		10.8		6596.2	1876.0	39484.0	2272.9	0.	1968	1.3326	65.5680	0.7018	0.0600	2.480
528	80	8	80.	144.	113.	9896.0		1.0		14.7		7918.7	1876.0	39484.0	2236.1	0.	1968	1.3326	65.5680	0.7033	0.0547	2.496
528	80	9	84.	175.	102.		1.0	9.4	5406.4		1.0	7277.0	1876.0	39484.0	2222.3	0.	1968	1.3326	65.5680	0.6968	0.0561	2.519
529	79	8	63.	82.	78.	8072.7		291.2		6.2		1103.1	1541.0	34480.0	1516.2	0.	1773	2.0572	32.2449	0.6895	0.0286	2.211
529	79	9	65.	78.	68.	8[illegible]		1[illegible]	1750.1		1[illegible]	[illegible]	1541.0	34480.0	1[illegible]	0.	1773	2.0572	32.2449	0.6895	0.0302	2.234
529	79	10	71.	68.	64.	1[illegible]		124.9	4473.1		1[illegible]	[illegible]	1541.0	34480.0	1[illegible]	0.	1968	2.0572	32.2449	0.7396	0.0298	2.254

528	79	11	61.	546.	72.	8446.3		1.0		10.6	85.5	3309.7	5215.1	39484.0	2173.9	0.1968	1.3326	65.5680	0.7358	0.0449	2.275
528	79	12	82.	97.	70.	1.0		1.0		9.0	1.0	1.0	5215.1	39484.0	2160.0	0.1968	1.3326	65.5680	0.7296	0.0494	2.290
528	80	1	85.	227.	78.	1912.2		1.0		10.2	1.0	39378.3	2789.0	39484.0	2160.0	0.1968	1.3326	65.5680	0.7298	0.0599	2.333
528	80	2	83.	628.	76.	7699.0		1.0	239.	10.6	102.6	15109.8	2789.0	39484.0	2183.8	0.1968	1.3326	65.5680	0.7270	0.0608	2.365
528	80	3	82.	265.	90.	580.1		1.0		10.4	66.2	6655.1	2789.0	39484.0	2208.8	0.1968	1.3326	65.5680	0.7182	0.0619	2.399
528	80	4	80.	197.	61.		6.	1.0		12.5	89.6	6655.1	5626.0	39484.0	2237.8	0.1968	1.3326	65.5680	0.7169	0.0596	2.426
528	80	5	77.	76.	73.			1.0		12.5	99.6	5985.5	5626.0	39484.0	2267.8	0.1968	1.3326	65.5680	0.7153	0.0553	2.451
528	80	6	76.	146.	100.			1.0		12.7	1.0	6596.5	5626.0	39484.0	2307.8	0.1968	1.3326	65.5680	0.7136	0.0641	2.478
528	80	7	76.	86.	128.	1776.0		1.0		12.7	1.0	7018.7	1876.0	39484.0	2272.9	0.1968	1.3326	65.5680	0.7078	0.0600	2.480
528	80	8	80.	144.	113.	6896.0		1.0		10.7	1.0	7018.7	1876.0	39484.0	2336.1	0.1968	1.3326	65.5680	0.7033	0.0547	2.496
528	80	9	84.	175.	102.			1.0		9.4	1.0	7277.0	1876.0	39484.0	2222.3	0.1968	1.3326	65.5680	0.6968	0.0561	2.519
529	79	8	63.	82.	78.	4072.7		291.2		6.2	1.0	1103.1	1541.0	34480.0	1516.2	0.1773	2.0572	32.2449	0.6895	0.0286	2.211
529	79	9	67.	73.	69.	5174.5		1.0	175.	0.1	1.0	35049.2	1541.0	34480.0	1435.8	0.1773	2.0572	32.2449	0.6895	0.0302	2.234
529	79	10	74.	66.	89.	13551.2		129.9	497.	3.7	37.2	16081.8	2969.1	34480.0	1871.3	0.1773	2.0572	32.2449	0.7960	0.0306	2.254
529	79	11	76.	374.	36.	8735.0		1.0		6.5	74.6	2489.6	5969.1	34480.0	1451.2	0.1968	2.0572	32.2449	0.7919	0.0320	2.275
529	79	12	72.	76.	36.			1.0		5.8	1.0	1.0	5969.1	34480.0	1433.8	0.1968	2.0572	32.2449	0.7852	0.0391	2.299
529	80	1	73.	130.	86.	165.1		1.0		5.6	1.0	4166.7	5969.1	34480.0	1402.1	0.1968	2.0572	32.2449	0.7606	0.0487	2.333
529	80	2	73.	471.	87.	6603.7		1.0	325.	5.5	82.2	12268.7	5526.7	34480.0	1461.2	0.1968	2.0572	32.2449	0.7577	0.0430	2.365
529	80	3	73.	161.	82.	4052.8		1.0		5.5	82.2	12268.7	5526.7	34480.0	1419.2	0.1968	2.0572	32.2449	0.7485	0.0395	2.399
529	80	4	72.	189.	56.		47.	1.0		10.3	84.6	19741.9	5526.7	34480.0	1498.9	0.1968	2.0572	32.2449	0.7478	0.0381	2.426
529	80	5	72.	67.	75.			1.0		6.3	84.6	9368.0	5526.7	34480.0	1528.5	0.1968	2.0572	32.2449	0.7465	0.0369	2.451
529	80	6	71.	107.	91.			1.0		6.6	1.0	6574.5	5526.7	34480.0	1547.5	0.1968	2.0572	32.2449	0.7437	0.0454	2.478
529	80	7	169.	54.	113.	1146.5		1.0		6.6	1.0	6574.5	5526.7	34480.0	1547.5	0.1968	2.0572	32.2449	0.7377	0.0458	2.480
529	80	8	65.	88.	101.	5731.4		1.0		6.4	1.0	6574.5	5526.7	34480.0	1515.1	0.1968	2.0572	32.2449	0.7339	0.0430	2.496
529	80	9	65.	135.	96.			1.0	505.	5.2	1.0	6652.1	5526.7	34480.0	1471.8	0.1968	2.0572	32.2449	0.7262	0.0405	2.519
541	79	8	79.	81.	100.	11946.7		285.1		9.4	67.7	1901.8	1071.0	41583.0	1018.6	0.1670	4.6331	52.6362	0.6895	0.0368	2.211
541	79	9	83.	100.	87.	8622.9		1.0	137.	9.4	90.7	6387.1	1071.0	41583.0	1016.8	0.1670	4.6331	52.6362	0.6895	0.0369	2.234
541	79	10	86.	77.	67.	2615.3		65.7	505.	9.4	79.7	4871.4	2396.1	41583.0	1026.6	0.1670	4.6331	52.6362	0.6853	0.0365	2.254
541	79	11	87.	512.	83.	15904.8		1.0		10.5	17.8	4114.9	2396.1	41583.0	1026.6	0.1968	4.6331	52.6362	0.6821	0.0479	2.275
541	79	12	89.	105.	75.	3177.8		1.0		12.5	1.0	1.0	2396.1	41583.0	1026.6	0.1968	4.6331	52.6362	0.6767	0.0526	2.299
541	80	1	87.	216.	97.	5060.1		1.0		12.5	1.0	5216.2	2396.1	41583.0	1026.6	0.1968	4.6331	52.6362	0.6504	0.0642	2.333
541	80	2	89.	593.	106.	12179.7		1.0	44.	12.4	29.3	2165.7	2396.1	41583.0	1026.6	0.1968	4.6331	52.6362	0.6479	0.0622	2.365
541	80	3	90.	522.	107.	11743.1		1.0		12.4	129.3	2165.7	2396.1	41583.0	1026.6	0.1968	4.6331	52.6362	0.6488	0.0631	2.399
541	80	4	90.	302.	102.	1422.4		26.2		12.4	203.6	2571.2	2396.1	41583.0	1026.6	0.1968	4.6331	52.6362	0.6389	0.0591	2.426
541	80	5	88.	103.	83.	5081.1		1.0		12.4	20.1	2571.2	2396.1	41583.0	1026.6	0.1968	4.6331	52.6362	0.6383	0.0662	2.451
541	80	6	88.	178.	125.	9937.9		1.0		12.4	1.0	2571.2	2396.1	41583.0	1026.6	0.1968	4.6331	52.6362	0.6359	0.0648	2.478
541	80	7	100.	133.	123.	9507.9		1.0		11.7	1.0	2571.2	2396.1	41583.0	1026.6	0.1968	4.6331	52.6362	0.6308	0.0628	2.480
541	80	8	106.	123.	175.	10937.9		1.0		10.7	1.0	10218.9	2396.1	41583.0	1026.6	0.1968	4.6331	52.6362	0.6267	0.0662	2.496
541	80	9	108.	283.	152.	23813.3		21.8	703.	9.9	1.0	8845.1	2396.1	41583.0	1015.3	0.1968	4.6331	52.6362	0.6210	0.0730	2.519
559	79	8	60.	95.	78.	7251.3		243.2		11.7	1898.9	1265.7	2742.0	36879.0	1311.5	0.1589	3.8920	60.4175	0.6895	0.0363	2.211
559	79	9	60.	115.	53.	6960.1		1.0	139.	9.8	1863.8	3108.7	5744.7	36879.0	1317.0	0.1589	3.8920	60.4175	0.6887	0.0358	2.254
559	79	10	56.	119.	56.	16115.1		782.9	316.	9.6	596.6	1508.7	5744.7	36879.0	1317.0	0.1968	3.8920	60.4175	0.6858	0.0359	2.275
559	79	11	57.	400.	43.	10385.1		1.0		12.6	658.6	3108.7	5744.7	36879.0	1339.0	0.1968	3.8920	60.4175	0.6826	0.0399	2.299
559	79	12	58.	94.	49.			1.0		12.6	246.7	1.0	5744.7	36879.0	1339.0	0.1968	3.8920	60.4175	0.6399	0.0443	2.333
559	80	1	59.	145.	73.	1882.4		1.0		12.6	1.0	4856.5	5744.7	36879.0	1339.0	0.1968	3.8920	60.4175	0.6289	0.0477	2.365
559	80	2	59.	407.	79.	7526.4		1.0	272.	12.9	120.9	2851.8	1775.7	36879.0	1339.0	0.1968	3.8920	60.4175	0.6265	0.0510	2.399
559	80	3	57.	233.	62.	5628.4		1.0		11.1	160.9	2851.8	1775.7	36879.0	1339.0	0.1968	3.8920	60.4175	0.6189	0.0515	2.426
559	80	4	53.	178.	61.		56.	1.1		12.2	1712.4	10333.5	1775.7	36879.0	1339.0	0.1968	3.8920	60.4175	0.6178	0.0529	2.451
559	80	5	53.	63.	44.			2.2		12.3	1978.0	8466.8	1775.7	36879.0	1327.8	0.1968	3.8920	60.4175	0.6173	0.0526	2.478
559	80	6	55.	148.	73.			1.0		12.4	1743.8	5717.2	1775.7	36879.0	1345.4	0.1968	3.8920	60.4175	0.6189	0.0664	2.480
559	80	7	52.	107.	101.	1527.4		1.0		11.7	1.0	5717.2	4554.3	36879.0	1337.0	0.1968	3.8920	60.4175	0.6190	0.0684	2.496
559	80	8	55.	114.	94.	7636.9		1.0		11.1	1.0	6698.5	4554.3	36879.0	1324.1	0.1968	3.8920	60.4175	0.6061	0.0671	2.496
559	80	9	58.	202.	93.			1.0	28.	0.0	326.1	6163.5	4554.3	36879.0	1312.5	0.1968	3.8920	60.4175	0.6005	0.0644	2.519
725	79	8	71.	56.	67.	7349.4		139.7		5.1	106.4	1179.4	3805.0	26032.0	1624.7	0.2251	4.3494	69.5777	0.6895	0.0407	2.211
725	79	9	75.	60.	75.	6078.4		1.0	782.	5.9	79.9	30166.1	3806.0	26032.0	1632.9	0.2251	4.3494	69.5777	0.6895	0.0405	2.234
725	79	10	79.	53.	49.	13205.4		324.4	275.	9.7	121.4	12378.7	2059.9	26032.0	1628.7	0.2531	4.3494	69.5777	0.7943	0.0399	2.254
725	79	11	76.	280.	67.	8739.5		1.0		8.7	202.9	241.1	2059.9	26032.0	1628.7	0.2531	4.3494	69.5777	0.7905	0.0431	2.275
725	79	12	75.	91.	69.			1.0		5.6	29.4	1.0	2059.9	26032.0	1628.7	0.2531	4.3494	69.5777	0.7835	0.0466	2.299
725	80	1	72.	113.	93.	1408.4		1.0		9.6	1.0	27771.5	2560.7	26032.0	1632.9	0.2531	4.3494	69.5777	0.7647	0.0473	2.333
725	80	2	75.	210.	115.	5632.4		172.7	288.	9.5	172.7	12432.7	2560.7	26032.0	1636.9	0.2531	4.3494	69.5777	0.7637	0.0456	2.365
725	80	3	77.	195.	72.	8215.9		109.3		4.5	109.3	8338.2	2560.7	26032.0	1648.3	0.2531	4.3494	69.5777	0.7544	0.0449	2.399
725	80	4	79.	199.	78.		53.	1.0		4.4	166.3	17062.5	2996.3	26032.0	1656.8	0.2531	4.3494	69.5777	0.7531	0.0440	2.426
725	80	5	81.	54.	67.			1.0		6.4	166.3	5699.8	2996.3	26032.0	1678.8	0.2531	4.3494	69.5777	0.7524	0.0496	2.451
725	80	6	84.	114.	104.			1.0		7.9	1.0	5467.5	2996.3	26032.0	1716.7	0.2531	4.3494	69.5777	0.7498	0.0574	2.478
725	80	7	83.	81.	148.	1092.5		1.0		8.0	1.0	5467.5	5758.7	26032.0	1721.0	0.2531	4.3494	69.5777	0.7435	0.0558	2.480
725	80	8	83.	90.	109.	5462.3		35.1		8.0	1.0	5679.7	5758.7	26032.0	1718.0	0.2531	4.3494	69.5777	0.7388	0.0582	2.496
725	80	9	84.	142.	121.			1.0	12.	2.3	3424.3	5991.9	2750.7	26032.0	1718.2	0.2531	4.3494	69.5777	0.7320	0.0572	2.519
730	79	8	58.	51.	108.	1513.4		208.2		6.7	1.0	760.7	826.0	23961.0	901.4	0.2251	4.6516	52.4390	0.6895	0.0599	2.211
730	79	9	58.	71.	88.	2620.3		1.0	969.	5.5	1.0	22650.9	826.0	23961.0	907.4	0.2251	4.6516	52.4390	0.6895	0.0595	2.234
730	79	10	60.	96.	71.	6767.6		245.8	2943.	1.	40.7	9456.2	1996.3	23961.0	915.0	0.2531	4.6516	52.4390	1.0328	0.0612	2.254

730	79	10	61.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.0581	[illegible]
730	79	11	61.	384.	70.	4113.4	1.0	5.1	69.2	2197.8	1996.3	23961.0	913.8	0.2531	4.6516	52.4390	1.0274	0.0640	2.275
730	79	12	62.	88.	73.	1.0	1.0	6.2	1.0	1.0	1996.3	23961.0	908.4	0.2531	4.6516	52.4390	1.0187	0.0574	2.299
730	80	1	62.	155.	108.	555.9	1.0	8.5	1.0	23014.3	1443.0	23961.0	905.2	0.2531	4.6516	52.4390	0.9702	0.0766	2.333
730	80	2	61.	193.	81.	2221.8	1.0	926.1	103.1	9866.2	1443.0	23961.0	902.0	0.2531	4.6516	52.4390	0.9668	0.0717	2.365
730	80	3	61.	159.	90.	1666.5	1.0	9.2	64.6	13913.8	1443.0	23961.0	903.0	0.2531	4.6516	52.4390	0.9547	0.0701	[illegible]
730	80	4	57.	165.	79.	1.0	41.0	8.3	100.4	13273.0	1632.7	23961.0	905.1	0.2531	4.6516	52.4390	0.9530	0.0660	2.426
730	80	5	58.	54.	74.	1.0	1.0	7.0	100.4	2950.0	1632.7	23961.0	907.1	0.2531	4.6516	52.4390	0.9522	0.0664	2.451
730	80	6	55.	103.	69.	1.0	1.0	6.4	1.0	3865.8	1632.7	23961.0	919.5	0.2531	4.6516	52.4390	0.9498	0.0760	2.478
730	80	7	56.	74.	110.	434.1	1.0	8.7	1.0	3865.8	2268.0	23961.0	919.9	0.2531	4.6516	52.4390	0.9409	0.0734	2.480
730	80	8	59.	86.	109.	2170.3	1.0	10.4	1.0	4958.8	2268.0	23961.0	918.5	0.2531	4.6516	52.4390	0.9349	0.0738	2.496
730	80	9	62.	169.	84.	1.0	8.6	3534.1	1.0	4100.8	2268.0	23961.0	911.6	0.2531	4.6516	52.4390	0.9263	0.0704	2.519
731	79	8	61.	89.	129.	5186.4	286.1	7.0	2192.4	946.3	1831.0	26801.0	1614.3	0.2606	16.0869	84.0961	0.6895	0.0399	2.211
731	79	9	78.	67.	92.	2623.9	1.0	1252.6	2186.2	30839.3	1832.0	26801.0	1666.9	0.2600	16.0869	84.0961	0.6895	0.0362	2.234
731	79	10	75.	43.	88.	8379.4	219.5	2433.2	218.7	[illegible]	1900.7	26801.0	1644.3	0.2531	16.0869	84.0961	0.8671	0.0308	2.254
731	79	11	73.	258.	74.	2533.2	1.0	12.0	404.9	[illegible]	1900.7	26801.0	1642.7	0.2531	16.0869	84.0961	0.8627	0.0334	2.275
731	79	12	78.	41.	76.	1.0	1.0	9.4	1.0	1.0	1900.7	26801.0	1660.3	0.2531	16.0869	84.0961	0.8553	0.0338	2.299
731	80	1	76.	208.	114.	322.9	1.0	10.4	1.0	[illegible]	2797.7	26801.0	1647.1	0.2531	16.0869	84.0961	0.8237	0.0420	2.333
731	80	2	71.	295.	112.	1291.7	1.0	1006.8	[illegible]	[illegible]	2797.7	26801.0	1643.3	0.2531	16.0869	84.0961	0.8205	0.0426	2.365
731	80	3	72.	166.	70.	968.8	1.0	5.5	[illegible]	26335.8	2797.7	26801.0	1644.1	0.2531	16.0869	84.0961	0.8105	0.0347	2.399
731	80	4	72.	185.	76.	1.0	52.3	8.6	847.8	20181.1	1978.0	26801.0	1652.6	0.2531	16.0869	84.0961	0.8092	0.0388	2.426
731	80	5	70.	68.	80.	1.0	1.0	7.3	847.8	7806.1	1978.0	26801.0	1644.5	0.2531	16.0869	84.0961	0.8088	0.0440	2.451
731	80	6	69.	129.	86.	1.0	1.0	6.6	505.8	5783.1	1978.0	26801.0	1662.0	0.2531	16.0869	84.0961	0.8054	0.0530	2.478
731	80	7	65.	68.	127.	80.4	1.0	9.3	1.0	5783.1	3607.0	26801.0	1703.9	0.2531	16.0889	84.0961	0.7989	0.0485	2.480
731	80	8	66.	69.	126.	402.0	1.0	8.7	1.0	7937.4	3607.0	26801.0	1718.9	0.2531	16.0889	84.0961	0.7937	0.0526	2.496
731	80	9	68.	236.	97.	1.0	21.5	4873.8	1.0	6333.0	3607.0	26801.0	1711.6	0.2531	16.0889	84.0961	0.7865	0.0403	2.519
732	79	8	61.	100.	99.	6877.6	180.4	6.8	2634.8	902.7	937.0	26801.0	1707.8	0.2600	22.7768	83.9273	0.6895	0.0411	2.211
732	79	9	61.	84.	78.	[illegible]	1.0	1220.9	2620.3	33163.5	937.0	26801.0	1760.2	0.2600	22.7768	83.9273	0.6895	0.0394	2.234
732	79	10	67.	80.	54.	[illegible]	21.6	3967.3	2686.6	15729.3	1556.3	26801.0	1732.7	0.2531	22.7768	83.9273	0.5933	0.0341	2.254
732	79	11	67.	453.	74.	[illegible]	1.0	7.5	2891.8	3091.1	1556.3	26801.0	1733.6	0.2531	22.7768	83.9273	0.5903	0.0373	2.275
732	79	12	70.	52.	69.	1.0	1.0	7.5	1212.7	1.0	1556.3	26801.0	1762.8	0.2531	22.7768	83.9273	0.5852	0.0297	2.299
732	80	1	75.	211.	85.	1898.6	1.0	10.2	1652.4	36335.9	1998.0	26801.0	1778.3	0.2531	22.7768	83.9273	0.5872	0.0472	2.333
732	80	2	77.	215.	108.	7594.3	1.0	774.4	6132.2	17755.8	1998.0	26801.0	1768.0	0.2531	22.7768	83.9273	0.5849	0.0458	2.365
732	80	3	74.	166.	91.	5682.8	1.0	7.7	6079.3	25681.7	1998.0	26801.0	1761.7	0.2531	22.7768	83.9273	0.5778	0.0515	2.399
732	80	4	74.	214.	71.	1.0	40.8	9.2	5706.4	16487.1	1808.3	26801.0	1749.5	0.2531	22.7768	83.9273	0.5768	0.0438	2.426
732	80	5	69.	67.	72.	1.0	1.0	9.8	8922.0	6622.7	1808.3	26801.0	1745.5	0.2531	22.7768	83.9273	0.5763	0.0455	2.451
732	80	6	69.	108.	106.	1.0	1.0	6.2	10453.1	4719.7	1808.3	26801.0	1785.1	0.2531	22.7768	83.9273	0.5741	0.0538	2.478
732	80	7	67.	87.	129.	2382.6	1.0	7.4	4116.3	4719.7	3143.0	26801.0	1809.5	0.2531	22.7768	83.9273	0.5695	0.0501	2.480
732	80	8	65.	93.	107.	11912.8	1.0	8.9	4100.4	7812.1	3143.0	26801.0	1821.7	0.2531	22.7768	83.9273	0.5658	0.0498	2.496
732	80	9	66.	220.	98.	1.0	13.7	4154.5	1.0	5164.9	3143.0	26801.0	1806.8	0.2531	22.7768	83.9273	0.5607	0.0408	2.519
733	79	8	56.	92.	109.	4463.4	232.3	8.6	145.5	802.0	2388.0	23852.0	1208.8	0.2073	26.0732	48.0983	0.6895	0.0607	0.211
733	79	9	63.	103.	70.	4636.6	1.0	1240.3	110.3	27395.9	2388.0	23852.0	1127.3	0.2073	26.0732	48.0983	0.6895	0.0651	2.234
733	79	10	68.	102.	68.	10820.9	177.2	2899.6	272.3	13378.3	1769.0	23852.0	1260.7	0.2531	26.0732	48.0983	0.9536	0.0626	2.254
733	79	11	68.	534.	72.	6874.6	1.0	10.4	447.5	3225.5	1769.0	23852.0	1240.1	0.2531	26.0732	48.0983	0.9685	0.0693	2.275
733	79	12	66.	103.	64.	8.6	1.0	12.7	43.8	1.0	1769.0	23852.0	1205.8	0.2531	26.0732	48.0983	0.9801	0.0662	2.299
733	80	1	62.	147.	98.	2212.7	1.0	46.5	1.0	30371.0	1842.7	23852.0	1182.9	0.2531	26.0732	48.0983	0.9425	0.0757	2.333
733	80	2	66.	173.	84.	6941.1	1.0	1836.8	696.9	15209.6	1842.7	23852.0	1202.6	0.2531	26.0732	48.0983	0.9388	0.0755	2.365
733	80	3	65.	155.	73.	5285.4	1.0	8.8	886.6	20140.3	1842.7	23852.0	1224.0	0.2531	26.0732	48.0983	0.9274	0.0650	2.399
733	80	4	65.	151.	71.	241.9	34.4	6.3	673.4	18095.1	2196.3	23852.0	1233.3	0.2531	26.0732	48.0983	0.9258	0.0665	2.426
733	80	5	65.	47.	76.	490.8	1.0	10.1	673.4	7161.3	2196.3	23852.0	1256.8	0.2531	26.0732	48.0983	0.9249	0.0740	2.451
733	80	6	59.	116.	90.	192.2	1.0	6.6	324.8	3678.2	2196.3	23852.0	1264.7	0.2531	26.0732	48.0983	0.9215	0.0838	2.478
733	80	7	59.	74.	90.	1429.8	1.0	10.8	1.0	3678.2	1581.7	23852.0	1277.8	0.2531	26.0732	48.0983	0.9140	0.0857	2.480
733	80	8	59.	104.	103.	5706.9	1.0	10.9	1.0	5115.3	1581.7	23852.0	1272.1	0.2531	26.0732	48.0983	0.9082	0.0785	2.496
733	80	9	60.	177.	96.	384.0	5.2	2986.0	1.0	3896.4	1581.7	23852.0	1281.2	0.2531	26.0732	48.0983	0.8998	0.0731	2.519
734	79	8	40.	90.	91.	6422.0	104.0	8.6	1290.7	1213.2	1128.0	20318.0	667.0	0.2453	30.5391	69.9577	0.6895	0.0637	2.211
734	79	9	[illegible]	[illegible]	[illegible]	[illegible]	1.0	[illegible]	[illegible]	[illegible]	1128.0	20318.0	[illegible]	0.2453	30.5391	69.9577	[illegible]	[illegible]	[illegible]

733	80	7	59.	74.	90.	1429.4		1.0	10.5		1.0	5115.3	1581.7	23852.0	1272.1	0.253126.	0.0732	98.0943	0.4996	0.0731	2.526
733	80	8	59.	104.	103.	5706.9		1.0	10.9		1.0	3896.8	1581.7	23852.0	1281.2	0.253126.	0.0732	98.0943	0.4998	0.0731	2.519
733	80	9	60.	177.	96.	384.0		5.2	2986.0		1.0	3896.8	1581.7	23852.0	1281.2	0.253126.	0.0732	98.0943	0.4998	0.0731	2.519
734	79	8	80.	90.	91.	6422.0		104.0	8.0		1290.7	1213.2	1128.0	20318.0	667.0	0.245330.	0.5391	69.9577	0.6895	0.0637	2.211
734	79	9	39.	81.	83.	5615.9		1.0	970.4		1160.6	21287.2	1128.0	20318.0	669.6	0.245330.	0.5391	69.9577	0.6895	0.0655	2.258
734	79	10	43.	89.	42.	13383.1		350.3	3162.2		1406.2	13850.7	830.3	20318.0	747.9	0.253130.	0.5391	69.9577	0.6880	0.0662	2.254
734	79	11	43.	468.	38.	9123.5		1.0	11.8		1660.1	2875.3	830.3	20318.0	753.8	0.253130.	0.5391	69.9577	0.6845	0.0667	2.275
734	79	12	43.	96.	30.	1.0		1.0	12.1		590.8	1.0	830.3	20318.0	751.5	0.253130.	0.5391	69.9577	0.6747	0.0539	2.299
734	80	1	41.	166.	52.	1124.2		1.0	8.1		1.0	25129.7	685.3	20318.0	767.5	0.253130.	0.5391	69.9577	0.6511	0.0723	2.333
734	80	2	42.	169.	41.	4546.7		1.0	2735.3		2517.6	10541.2	685.3	20318.0	771.8	0.253130.	0.5391	69.9577	0.6485	0.0659	2.365
734	80	3	43.	217.	34.	3420.7		1.0	10.1		2077.6	18279.1	685.3	20318.0	771.8	0.253130.	0.5391	69.9577	0.6486	0.0605	2.399
734	80	4	40.	177.	48.	1.0		34.0	4.9		2103.7	12112.9	650.0	20318.0	768.5	0.253130.	0.5391	69.9577	0.6395	0.0581	2.426
734	80	5	41.	60.	49.	1.0		1.0	6.6		2063.6	6158.2	650.0	20318.0	765.6	0.253130.	0.5391	69.9577	0.6390	0.0602	2.451
734	80	6	41.	123.	57.	1.0		1.0	10.6		2186.4	3283.9	650.0	20318.0	768.5	0.253130.	0.5391	69.9577	0.6366	0.0682	2.478
734	80	7	38.	60.	65.	796.9		1.0	8.1		1.0	3283.9	1088.3	20318.0	767.3	0.253130.	0.5391	69.9577	0.6314	0.0606	2.480
734	80	8	39.	105.	67.	3984.3		1.0	8.0		1.0	5879.8	1088.3	20318.0	762.7	0.253130.	0.5391	69.9577	0.6274	0.0544	2.496
734	80	9	40.	172.	60.	1.0		3.5	2963.8		1.0	3933.5	1088.3	20318.0	769.9	0.253130.	0.5391	69.9577	0.6216	0.0560	2.519
735	79	8	43.	39.	58.	5501.2		226.3	5.6		24.2	841.5	1661.0	20787.0	1288.7	0.2019	9.6759	55.9212	0.6895	0.0327	2.211
735	79	9	47.	53.	37.	5272.5		1.0	1395.7		32.5	26221.8	1662.0	20787.0	1301.0	0.2019	9.6759	55.9212	0.6895	0.0324	2.234
735	79	10	44.	64.	30.	11868.6		207.1	2541.7		92.4	12618.7	1321.7	20787.0	1304.9	0.2531	9.6759	55.9212	0.8171	0.0333	2.254
735	79	11	46.	254.	32.	9367.2		1.0	9.0		177.7	2793.8	1321.7	20787.0	1310.5	0.2531	9.6759	55.9212	0.8129	0.0348	2.275
735	79	12	40.	86.	31.	400.5		1.0	6.6		1.0	1.0	1321.7	20787.0	1301.8	0.2531	9.6759	55.9212	0.8060	0.0352	2.299
735	80	1	42.	81.	54.	7325.4		1.0	512.3		1.0	29480.2	2377.0	20787.0	1295.8	0.2531	9.6759	55.9212	0.7615	0.0371	2.333
735	80	2	42.	134.	41.	8172.0		1.0	2276.2		219.2	13966.1	2377.0	20787.0	1298.5	0.2531	9.6759	55.9212	0.7546	0.0347	2.365
735	80	3	43.	118.	33.	6892.8		1.0	5.5		125.7	15844.7	2377.0	20787.0	1312.7	0.2531	9.6759	55.9212	0.7493	0.0330	2.399
735	80	4	43.	121.	31.	3942.7		34.8	6.6		208.9	11676.5	2377.0	20787.0	1316.3	0.2531	9.6759	55.9212	0.7481	0.0374	2.426
735	80	5	41.	83.	36.	8107.2		1.0	8.7		208.9	4739.8	2277.8	20787.0	1327.8	0.2531	9.6759	55.9212	0.7474	0.0408	2.451
735	80	6	41.	79.	57.	2299.2		1.0	5.4		2.4	3932.8	2277.0	20787.0	1337.5	0.2531	9.6759	55.9212	0.7446	0.0435	2.478
735	80	7	42.	54.	84.	5387.5		1.0	5.4		1.0	3932.8	1629.7	20787.0	1318.6	0.2531	9.6759	55.9212	0.7385	0.0438	2.480
735	80	8	41.	52.	58.	3399.9		1.0	7.0		1.0	4655.5	1629.7	20787.0	1320.6	0.2531	9.6759	55.9212	0.7338	0.0425	2.496
735	80	9	82.	103.	57.	5476.9		9.4	2307.5		1.0	4172.1	1629.7	20787.0	1320.2	0.2531	9.6759	55.9212	0.7271	0.0456	2.519
746	79	8	57.	66.	109.	6926.1		211.5	6.7		305.1	411.6	1520.0	22168.0	788.1	0.2600	8.3834	78.0842	0.6895	0.0527	2.211
746	79	9	59.	67.	92.	5386.5		1.0	912.2		228.8	24857.9	1520.0	22168.0	791.4	0.2600	8.3834	78.0842	0.6895	0.0524	2.234
746	79	10	59.	86.	46.	11695.1		90.8	3522.5		534.3	18846.2	1374.7	22168.0	768.5	0.2531	8.3834	78.0842	0.8795	0.0430	2.254
746	79	11	55.	454.	59.	7930.1		1.0	10.6		514.4	2307.1	1374.7	22168.0	808.8	0.2531	8.3834	78.0842	0.9744	0.0480	2.275
746	79	12	56.	88.	65.	1.0		1.0	8.8		84.3	1.0	1374.7	22168.0	803.9	0.2531	8.3834	78.0842	0.9661	0.0369	2.299
746	80	1	54.	153.	81.	1324.0		1.0	6.6		1.0	24669.4	1238.0	22168.0	811.2	0.2531	8.3834	78.0842	0.9462	0.0552	2.333
746	80	2	57.	206.	84.	5296.1		1.0	3544.8		172.2	11308.3	1538.8	22168.0	810.8	0.2531	8.3834	78.0842	0.9426	0.0533	2.365
746	80	3	65.	170.	71.	3972.1		1.0	10.0		107.3	16046.5	1538.8	22168.0	807.1	0.2531	8.3834	78.0842	0.9311	0.0585	2.399
746	80	4	62.	127.	61.	1.0		37.0	8.3		2712.9	15940.0	2594.3	22168.0	803.4	0.2531	8.3834	78.0842	0.9295	0.0500	2.426
746	80	5	58.	86.	80.	1.0		1.0	7.3		2114.2	6221.8	2594.3	22168.0	800.2	0.2531	8.3834	78.0842	0.9247	0.0520	2.451
746	80	6	62.	81.	92.	1.0		1.0	7.1		5699.3	5866.7	2594.3	22168.0	820.5	0.2531	8.3834	78.0842	0.9210	0.0673	2.478
746	80	7	62.	62.	113.	1405.2		1.0	7.0		4069.8	3866.7	4236.7	22168.0	827.9	0.2531	8.3834	78.0842	0.9177	0.0598	2.480
746	80	8	68.	71.	96.	7026.1		1.0	6.3		3503.7	4367.2	4236.7	22168.0	869.4	0.2531	8.3834	78.0842	0.9118	0.0614	2.496
746	80	9	68.	179.	82.	1.0		13.2	3221.9		1.0	3655.4	4236.7	22168.0	824.7	0.2531	8.3834	78.0842	0.9034	0.0490	2.519
836	79	8	163.	279.	310.	18469.8		286.1	19.0		3936.9	5210.9	4672.8	67736.0	4924.0	0.1925	9.4800	97.2818	0.6855	0.0582	2.211
836	79	9	160.	375.	203.	16876.1		1.0	4017.0		3817.1	75701.9	4672.8	67736.0	4876.8	0.1925	9.4800	97.2818	0.6895	0.0587	2.234
836	79	10	162.	352.	185.	39599.2		130.8	2759.7		3665.2	38035.1	1245.0	67736.0	4937.4	0.1963	9.4800	97.2818	0.7936	0.0516	2.254
836	79	11	162.	653.	185.	27841.2		1.0	25.9		4069.1	7497.5	1245.0	67736.0	5009.9	0.1963	9.4800	97.2818	0.7895	0.0461	2.275
836	79	12	152.	229.	177.	1.0		1.0	29.0		1585.8	1.0	1245.0	67736.0	5064.8	0.1963	9.4800	97.2818	0.7828	0.0459	2.299
836	80	1	151.	355.	229.	4010.3		1.0	24.1		1.0	72648.4	4782.3	67736.0	5038.5	0.1963	9.4800	97.2818	0.7705	0.0571	2.333
836	80	2	148.	342.	242.	1800.5		1.0	35.9		3383.9	29939.6	4782.3	67736.0	5022.8	0.1963	9.4800	97.2818	0.7675	0.0548	2.365
836	80	3	148.	449.	234.	16116.0		1.0	21.6		3480.5	56274.4	4782.3	67736.0	5052.9	0.1963	9.4800	97.2818	0.7562	0.0526	2.399
836	80	4	148.	559.	202.	1.0		9.0	21.9		5205.8	51380.0	3185.5	67736.0	5046.2	0.1963	9.4800	97.2818	0.7569	0.0582	2.426
836	80	5	147.	201.	223.	1.0		1.0	23.5		5167.5	21647.0	3185.5	67736.0	5025.2	0.1963	9.4800	97.2818	0.7562	0.0570	2.451
836	80	6	147.	425.	196.	1.0		1.0	24.8		5585.1	12383.9	3185.5	67736.0	5045.8	0.1963	9.4800	97.2818	0.7499	0.0650	2.478
836	80	7	158.	204.	254.	4538.9		1.0	24.4		1.0	12383.9	6601.7	67736.0	5120.1	0.1963	9.4800	97.2818	0.7472	0.0638	2.480
836	80	8	165.	240.	256.	30556.5		1.0	28.2		2217.2	17896.2	6601.7	67736.0	5163.4	0.1963	9.4800	97.2818	0.7425	0.0667	2.496
836	80	9	170.	579.	305.	1.0		106.0	2420.2		2538.2	13617.0	6601.7	67736.0	5038.8	0.1963	9.4800	97.2818	0.7356	0.0674	2.519
837	79	8	95.	100.	150.	11475.3		461.4	8.8		1.0	1794.1	3270.0	35520.0	2232.9	0.1871	1.9864	58.7084	0.6895	0.0552	2.211
837	79	9	101.	120.	120.	8016.5		1.0	1414.2		1.0	47029.3	3270.0	35520.0	2234.7	0.1871	1.9864	58.7084	0.6895	0.0552	2.234
837	79	10	99.	203.	99.	16369.3		946.7	5416.9		33.5	16572.8	2731.5	35520.0	2225.6	0.1963	1.9864	58.7084	0.7327	0.0534	2.254

837	79	11	102.	451.	92.	10874.	1		1.0		11.2		79.3	3693.5	2751.3	35520.0	2210.5	0.1963	1.9864	58.7084	0.7289	0.0602	2.375
837	79	12	95.	138.	99.		1.0		1.0		6.2		1.0	1.0	2731.3	35520.0	2244.8	0.1963	1.9864	58.7084	0.7227	0.0645	2.299
837	80	1	95.	204.	157.	2218.	1		1.0		12.6		1.0	46124.1	2087.0	35520.0	2217.9	0.1963	1.9864	58.7084	0.7137	0.0758	2.333
837	80	2	88.	395.	170.	8900.	8		1.0		14.8		92.0	20723.3	2087.0	35520.0	2227.8	0.1963	1.9864	58.7084	0.7109	0.0699	2.365
837	80	3	91.	284.	127.	6675.	3		1.0		9.9		59.9	28782.8	2087.9	35520.0	2248.9	0.1963	1.9864	58.7084	0.7023	0.0689	2.399
837	80	4	92.	247.	159.		1.0		49.7		13.1		91.2	24988.5	1166.7	35520.0	2260.7	0.1963	1.9864	58.7084	0.7011	0.0733	2.426
837	80	5	94.	113.	161.		1.0		1.0		11.1		91.2	6849.1	1166.7	35520.0	2291.0	0.1963	1.9864	58.7084	0.7005	0.0742	2.451
837	80	6	96.	210.	171.		1.0		1.0		13.7		1.0	8913.4	1166.7	35520.0	2276.7	0.1963	1.9864	58.7084	0.6986	0.0823	2.478
837	80	7	99.	119.	194.	1699.	8		1.0		12.0		1.0	8913.9	3249.3	35520.0	2310.3	0.1963	1.9864	58.7084	0.6922	0.0803	2.480
837	80	8	93.	139.	173.	4375.	3		1.0		14.5		1.0	9896.3	3249.3	35520.0	2308.3	0.1963	1.9864	58.7084	0.6877	0.0768	2.496
837	80	9	97.	274.	177.		1.0		621.3	5592.5			1.0	9261.0	3249.3	35520.0	2308.4	0.1963	1.9864	58.7084	0.6814	0.0717	2.519
838	79	8	196.	218.	344.	23021.	4		432.8		20.8		2278.1	5205.3	1990.0	71627.0	4513.4	0.1880	7.3607	85.2918	0.6895	0.0617	2.211
838	79	9	198.	514.	234.	18586.	1		1.0	3114.4			2134.4	90630.3	1990.0	71627.0	4446.8	0.1880	7.3607	85.2918	0.6895	0.0626	2.234
838	79	10	196.	369.	182.	42600.	0	1228.5		4090.4		2379.0	42452.1		2982.3	71627.0	4449.2	0.1963	7.3607	85.2918	0.6834	0.0582	2.258
838	79	11	199.	656.	167.	30918.	2		1.0		25.9		2803.9	8259.8	2982.3	71627.0	4395.8	0.1963	7.3607	85.2918	0.6799	0.0611	2.275
838	79	12	193.	337.	175.		1.0		1.0		28.6		991.8	1.0	2982.3	71627.0	4447.8	0.1963	7.3607	85.2918	0.6741	0.0653	2.299
838	80	1	189.	324.	236.	6091.	0		1.0		27.7		1.0	85809.5	2929.0	71627.0	4376.9	0.1963	7.3607	85.2918	0.6639	0.0658	2.333
838	80	2	190.	470.	288.	23235.	1		1.0		36.9	3924.1	45350.7		2929.0	71627.0	4356.6	0.1963	7.3607	85.2918	0.6613	0.0598	2.365
838	80	3	183.	609.	239.	18151.	0		1.0		23.9	4117.8	61535.1		2929.0	71627.0	4375.1	0.1963	7.3607	85.2918	0.6532	0.0631	2.399
838	80	4	187.	532.	202.	408.	0		12.3		23.4	4392.9	53016.9		2928.0	71627.0	4292.8	0.1963	7.3607	85.2918	0.6521	0.0689	2.426
838	80	5	180.	220.	208.	816.	0		1.0		5.0	4185.4	33812.7		2928.0	71627.0	4315.4	0.1963	7.3607	85.2918	0.6515	0.0637	2.451
838	80	6	194.	475.	258.	408.	0		1.0		27.6	4555.4	14923.1		2928.0	71627.0	4425.2	0.1963	7.3607	85.2918	0.6461	0.0680	2.478
838	80	7	196.	287.	316.	5309.	1		1.0		26.9		1.0	14923.1	3776.0	71627.0	4520.0	0.1963	7.3607	85.2918	0.6438	0.0675	2.480
838	80	8	198.	233.	349.	25223.	4		1.0		26.2		1.0	18626.9	3776.0	71627.0	4568.2	0.1963	7.3607	85.2918	0.6397	0.0684	2.496
838	80	9	194.	580.	285.		1.0		105.6	3562.4			1.0	15411.2	3776.0	71627.0	4462.5	0.1963	7.3607	85.2918	0.6338	0.0589	2.519
839	79	8	102.	68.	142.	7572.	7		226.6		8.1		120.5	1849.7	5193.0	37068.0	2482.8	0.1871	3.5972	57.5097	0.6895	0.0560	2.211
839	79	9	100.	114.	108.	6518.	5		1.0	1717.5			90.4	45487.8	5193.0	37068.0	2479.0	0.1871	3.5972	57.5097	0.6895	0.0561	2.234
839	79	10	103.	205.	79.	15590.	3	364.0		2611.0		150.6	17940.6		1848.0	37068.0	2452.1	0.1963	3.5972	57.5097	0.6563	0.0575	2.258
839	79	11	101.	365.	94.	10312.	2		1.0		1.0		226.1	1177.8	1848.0	37068.0	2404.2	0.1963	3.5972	57.5097	0.6529	0.0615	2.275
839	79	12	97.	119.	123.		1.0		1.0		2.0		33.3	1.0	1848.0	37068.0	2454.8	0.1963	3.5972	57.5097	0.6473	0.0713	2.299
839	80	1	91.	163.	131.	3310.	9		1.0		9.6		1.0	48266.5	1803.0	37068.0	2425.6	0.1963	3.5972	57.5097	0.6129	0.0693	2.333
839	80	2	87.	231.	137.	13245.	6		1.0		18.7		193.8	20709.3	1803.0	37068.0	2424.0	0.1963	3.5972	57.5097	0.6106	0.0804	2.365
839	80	3	89.	296.	119.	9931.	4		1.0		9.2		111.8	30796.6	1803.0	37068.0	2457.5	0.1963	3.5972	57.5097	0.6031	0.0767	2.399
839	80	4	88.	550.	111.		1.0		6.3		9.3		183.2	28522.6	2551.7	37068.0	2484.5	0.1963	3.5972	57.5097	0.6021	0.0788	2.426
839	80	5	89.	130.	114.		1.0		1.0		10.3		183.2	10224.8	2551.7	37068.0	2503.5	0.1963	3.5972	57.5097	0.6015	0.0725	2.451
839	80	6	93.	216.	120.		1.0		1.0		9.4		1.0	9127.3	2551.7	37068.0	2547.7	0.1963	3.5972	57.5097	0.5965	0.0822	2.478
839	80	7	92.	141.	166.	2059.	6		1.0		13.2		1.0	9157.3	7257.0	37068.0	2508.0	0.1963	3.5972	57.5097	0.5948	0.0784	2.480
839	80	8	95.	148.	165.	10279.	9	257.4		1.0		1.0		85111.1	7257.0	37068.0	2495.2	0.1963	3.5972	57.5097	0.5906	0.0715	2.496
839	80	9	94.	240.	185.		1.0		32.0	2340.5			1.0	9243.6	7257.0	37068.0	2474.4	0.1963	3.5972	57.5097	0.5852	0.0700	2.519
840	79	8	110.	157.	161.	10695.	5	283.9		13.9		23.5	3424.4		1483.0	39118.0	2515.7	0.1925	7.2586	89.8156	0.6895	0.0590	2.211
840	79	9	112.	222.	168.	7669.	6		1.0	2216.8			17.6	55084.2	1483.0	39118.0	2828.8	0.1925	7.2586	89.8156	0.6895	0.0525	2.234
840	79	10	111.	551.	124.	17533.	0	80.9		1435.4		17.6	22063.1		8189.3	39118.0	2572.6	0.1963	7.2586	89.8156	0.7668	0.0554	2.258
840	79	11	108.	481.	106.	11467.	7		1.0		16.0		333.1	3945.8	8189.3	39118.0	2582.7	0.1963	7.2586	89.8156	0.7629	0.0539	2.275
840	79	12	108.	163.	119.		1.0		1.0		19.3		6.5	1.0	8189.3	39118.0	2626.3	0.1963	7.2586	89.8156	0.7564	0.0583	2.299
840	80	1	101.	207.	156.	2050.	1		1.0		17.9		1.0	50763.2	6.7	39118.0	2612.2	0.1963	7.2586	89.8156	0.7387	0.0607	2.333
840	80	2	103.	546.	192.	826.	3		1.0		17.6	379.8	22057.8		6.7	39118.0	2608.7	0.1963	7.2586	89.8156	0.7358	0.0612	2.365
840	80	3	104.	498.	175.	620.	1		1.0		14.5	228.2	34764.8		6.7	39118.0	2629.6	0.1963	7.2586	89.8156	0.7268	0.0604	2.399
840	80	4	103.	392.	174.		1.0		35.3		15.2	361.5	38951.6		367.7	39118.0	2652.5	0.1963	7.2586	89.8156	0.7256	0.0629	2.426
840	80	5	100.	172.	145.		1.0		1.0		18.2	361.5	12610.2		367.7	39118.0	2625.0	0.1963	7.2586	89.8156	0.7249	0.0668	2.451
840	80	6	98.	321.	160.		1.0		1.0		18.8		1.0	6984.4	367.7	39118.0	2648.6	0.1963	7.2586	89.8156	0.7189	0.0778	2.478
840	80	7	102.	163.	158.	1877.	4		1.0		15.9		1.0	6984.4	394.0	39118.0	2682.4	0.1963	7.2586	89.8156	0.7164	0.0787	2.480
840	80	8	105.	188.	170.	10470.	0		1.0		17.6	1798.2	13836.6		394.0	39118.0	2683.6	0.1963	7.2586	89.8156	0.7118	0.0815	2.496
840	80	9	109.	469.	233.		1.0	1158.0		3790.1		2680.8	10197.6		394.0	39118.0	2661.3	0.1963	7.2586	89.8156	0.7053	0.0727	2.519

Appendix 2: FY00

AREA=100

NBD	ESTIMATED HSG	%FOR THE AREA
101	1667.1784	0.134868
102	2303.7706	0.186355
103	1785.8006	0.144464
104	2104.6757	0.170259
105	1068.3472	0.086426
119	1781.9303	0.144151
151	1653.5753	0.133767
TOTAL	12361.5782	

APPENDIX 1 Y2O

AREA=300

NHD	ESTIMATED HRS	%FOR THE AREA
310	1423.5785	0.114944
311	1214.1038	0.098031
312	1988.6575	0.160571
313	1578.8281	0.127447
314	1550.4831	0.125151
315	1625.8225	0.131274
347	1172.2131	0.094648
348	1831.6572	0.147894
TOTAL	12384.9438	

ATTENDANCE 1 OF 0

AREA=400

NBD	ESTIMATED HSG	%FOR THE AREA
407	1013.7025	0.087930
408	1003.3422	0.087032
409	1383.3527	0.119994
417	1561.3812	0.135437
418	1663.1242	0.144262
420	1115.5608	0.096766
422	2646.0756	0.229525
423	1141.9338	0.099053
TOTAL	11528.4729	

APPENDIX 2 (180)

AREA=500

NRD	ESTIMATED HSG	%FOR THE AREA
521	1835.4483	0.218680
524	1256.9924	0.149761
527	942.4774	0.112289
528	1202.9191	0.143319
529	947.2499	0.112864
541	1332.6234	0.158772
559	875.5622	0.104317
TOTAL	8393.3227	

AREA=700

NBR	ESTIMATED HSG	%FOR THE AREA
725	1272.6502	0.152537
730	1072.1466	0.128505
731	1215.9075	0.145743
732	1134.4762	0.135976
733	1103.8204	0.132301
734	743.8207	0.089153
735	699.8479	0.083882
746	1100.5066	0.131904
TOTAL	8343.2361	

AREA=800

NRD	ESTIMATED HSG	%FOR THE AREA
836	2400.1095	0.258226
837	1339.5221	0.144125
838	279[illegible].3584	0.300429
839	1315.0043	0.141480
840	1447.5457	0.155740
TOTAL	9296.6102	

APPENDIX D 1980

AREA SUMMARY

100	12361.5782	0.198401
300	12384.9438	0.198776
400	11528.4729	0.185029
500	8393.3627	0.134711
7	8343.2561	0.133907
8	9294.6102	0.149176

TOTAL 62306.1638

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This research develops and illustrates a tactical approach for equitably allocatin a given national quota over the various recruiting districts and areas. The approach computerized and installed at Navy Headquarters, is in contrast to an earlier developed strategic optimizing approach in that is accepts as inputs the various levels of different types of already committed resources to the various districts. Each district's forecasted level of demographics (e.g., number of high school seniors, local unemployment rates, etc) are also included. The model is also useful for identifying on a retrospective basis "exceptional" districts,

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those who significantly underproduced or overproduced after the performances have been adjusted to account for differences in resources and demographics. It's illustrated using actual data for FY80.

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